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- **Vendor: Microsoft**
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- **Exam Name: Programming in HTML5 with JavaScript and CSS3 Exam**

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**QUESTION 1**

You are modifying an existing web page. The page is being optimized for accessibility. The current page contains the following HTML.

```
<ul>
  <li><a href="">Home</a></li>
  <li><a href="">Sales</a></li>
  <li><a href="">Operations</a></li>
</ul>
```

Standards-compliant screen readers must be able to identify the links contained within the navigation structure automatically.

You need to create the navigation link structure in the page.

With which container tags should you wrap the existing markup?

- A. <navmap> </navmap>
- B. <div id="nav"> </div>
- C. <nav> </nav>
- D. <map> </map>

**Answer: C**

**Explanation:**

[http://www.w3schools.com/tags/tag\\_nav.asp](http://www.w3schools.com/tags/tag_nav.asp)

**QUESTION 2**

Hotspot Question

You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets.

You have the following requirements:

- Users must be able to save information in the application about their favorite destination airport.
- The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<body>
    <input id="txtDest" type="text" />
    <input type="button" value="Submit"
        onclick="storeDestination('txtDest')" />
    <script>
        showDestination();
        function showDestination() {

            var dest = localStorage.destination;
            var dest = localStorage.destination;
            localStorage.destination = dest;
            var dest = sessionStorage.destination;
            sessionStorage.destination = dest;

            if (dest != null)
                document.getElementById("txtDest").value = dest;
        }

        function storeDestination(id) {
            var dest = document.getElementById(id).value;

            var dest = localStorage.destination;
            var dest = localStorage.destination;
            localStorage.destination = dest;
            var dest = sessionStorage.destination;
            sessionStorage.destination = dest;

        }
    </script>
</body>
```

**Answer:**

```
<body>
    <input id="txtDest" type="text" />
    <input type="button" value="Submit"
        onclick="storeDestination('txtDest')" />
    <script>
        showDestination();
        function showDestination() {

            var dest = localStorage.destination;

            var dest = localStorage.destination;
            localStorage.destination = dest;
            var dest = sessionStorage.destination;
            sessionStorage.destination = dest;

            if (dest != null)
                document.getElementById("txtDest").value = dest;
        }

        function storeDestination(id) {
            var dest = document.getElementById(id).value;

            var dest = localStorage.destination;
            var dest = localStorage.destination;
            localStorage.destination = dest;
            var dest = sessionStorage.destination;
            sessionStorage.destination = dest;

        }
    </script>
</body>
```

**QUESTION 3**

Hotspot Question

You are developing an HTML5 web application for displaying encyclopedia entries.

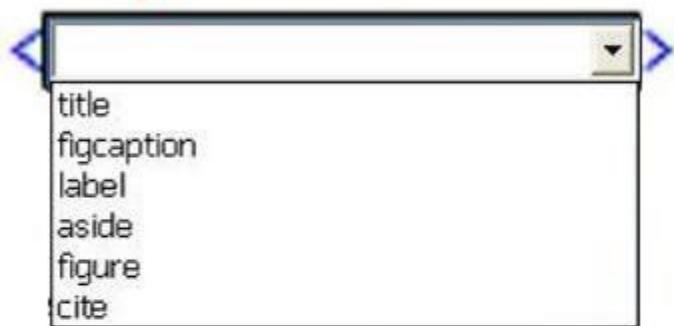
Each encyclopedia entry has an associated image that is referred to in the entry.

You need to display the image by using the correct semantic markup.

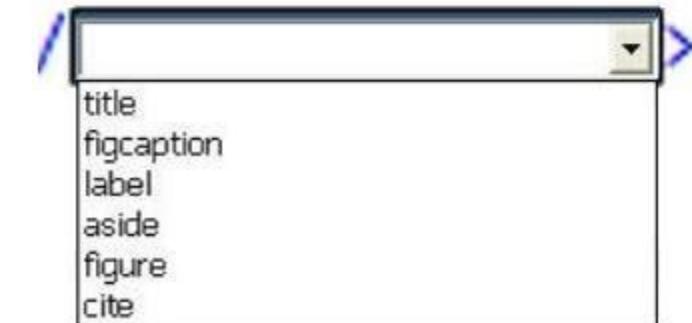
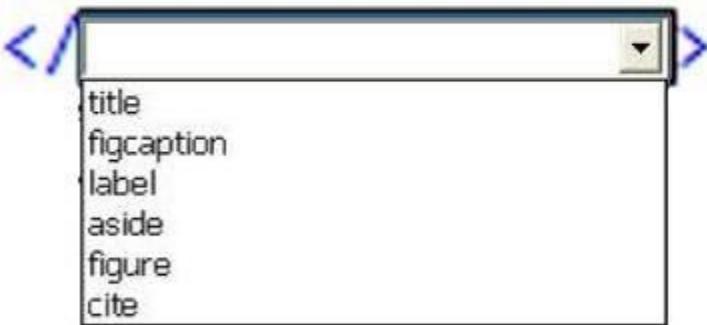
What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)







## Image description

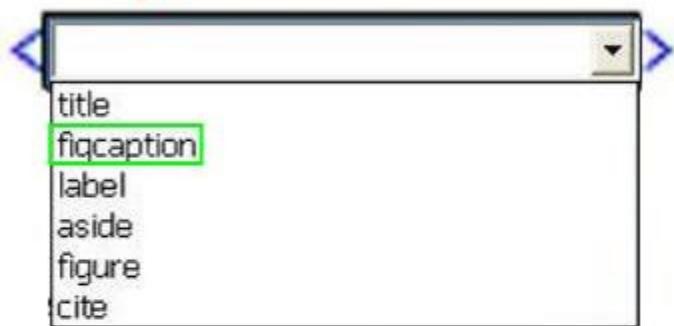


**Answer:**

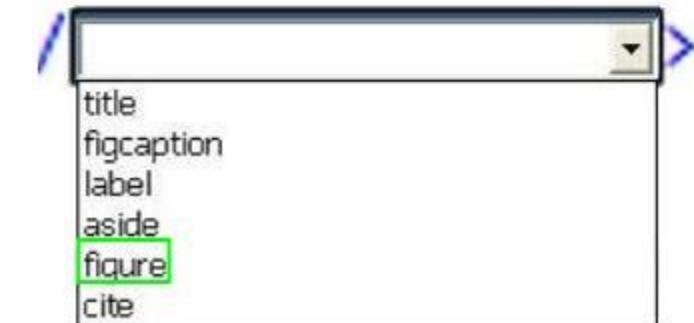
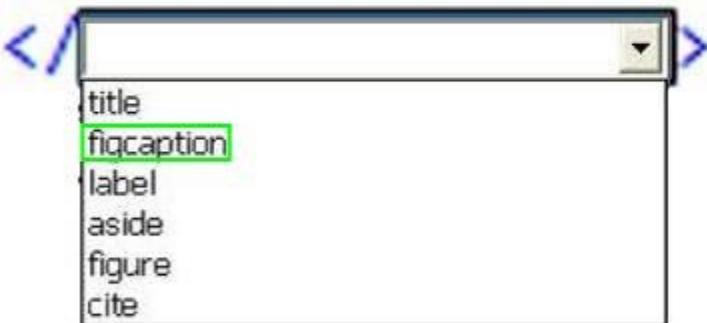


```

```



## Image description



### QUESTION 4

You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission() method.

You need to ensure that all future instances of the Customer object implement the GetCommission() method.

Which code segment should you use?

- A. 

```
Customer.apply.GetCommission() = function()
{
    alert('payroll');
}
```
  - B. 

```
Customer.prototype.GetCommission() = function Customer.GetCommission() {}
{
    alert('payroll');
}
```
  - C. 

```
Customer.GetCommission() = function (){
    alert('payroll');
}
```
  - D. 

```
Customer.prototype.GetCommission() = function ()
{
    alert('payroll');
}
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

#### QUESTION 5

You are developing a web form that includes the following code.

```
<div id="dynamicForm">
    <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicForm');">
</div>
```

When a user selects the check box, an input text box must be added to the page dynamically.

You need to ensure that the text box is added.

Which function should you use?

- A. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(divName).appendChild(newInputDiv);
}
```
  - B. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(divName).appendChild(newInputDiv);
}
```
  - C. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(divName).applyElement (newInputDiv);
}
```
  - D. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(newInputDiv).applyElement (divName);
}
```
- A.  
B.  
C.  
D.

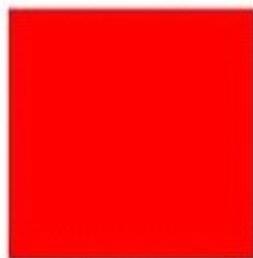
**Answer:** B

#### QUESTION 6

Hotspot Question

An HTML page has a canvas element.

You need to draw a red rectangle on the canvas element dynamically. The rectangle should resemble the following graphic.



How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();
        var context = canvas.getContext('2d');

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();

        </script>
    </body>
</html>
```

**Answer:**

```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();

        var context = canvas.getContext('2d');

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();

        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
        context.fillStyle = "rgb(255, 0, 0)";
        var canvas = document.getElementById('mycanvas');
        var canvas = document.beginPath();

        </script>
    </body>
</html>
```

**QUESTION 7**

You are developing an HTML5 page that has an element with an ID of logo. The page includes the following HTML.

```
<div>
Logo:<br>
<div id="logo">
</div>
</div>
```

You need to move the logo element lower on the page by five pixels.

Which lines of code should you use? (Each correct answer presents part of the solution. Choose two.)

- A. document.getElementById("logo").style.position = "relative";

- B. document.getElementById("logo").style.top = "5px";
- C. document.getElementById("logo").style.top = "-5px";
- D. document.getElementById("logo").style.position = "absolute";

**Answer:** AB

**Explanation:**

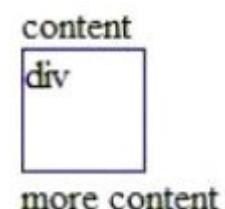
[http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)

[http://www.w3schools.com/cssref/pr\\_pos\\_top.asp](http://www.w3schools.com/cssref/pr_pos_top.asp)

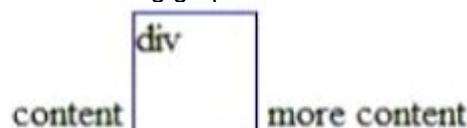
### QUESTION 8

You are developing a web page by using HTML5 and CSS3. The page includes a `<div>` tag with the ID set to validate.

When the page is rendered, the contents of the `<div>` tag appear on a line separate from the content above and below it. The rendered page resembles the following graphic.



The page must be rendered so that the `<div>` tag is not forced to be separate from the other content. The following graphic shows the correctly rendered output.



You need to ensure that the page is rendered to meet the requirement.

Which line of code should you use?

- A. document.getElementById("validate").style.display = "inline";
- B. document.getElementById("validate").style.margin = "0";
- C. document.getElementById("validate").style.padding = "0";
- D. document.getElementById("validate").style.display = "block";

**Answer:** A

**Explanation:**

[http://www.w3schools.com/cssref/pr\\_class\\_display.asp](http://www.w3schools.com/cssref/pr_class_display.asp)

### QUESTION 9

You are creating a JavaScript function that displays the name of a web application.

You declare the following button element.

`<input type="button" id= "About" value="About" />`

When a user clicks the button, a JavaScript function named About must be called.

You need to create an event handler that calls the About function when the button is clicked.

Which two code segments can you use? (Each correct answer presents a complete solution. Choose two.)

- A. 

```
var button = document.getElementById("About");
ScriptEngine.call(button, About());
```
  - B. 

```
var button = document.getElementById("About");
ScriptEngine.bind(button, About());
```
  - C. 

```
var button = document.getElementById("About");
button.addEventListener("click", About);
```
  - D. 

```
var button = document.getElementById("About");
button.attachEvent("onclick", About);
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** CD

**Explanation:**

<http://help.dottoro.com/ljeuqqoq.php>  
<http://help.dottoro.com/ljinxrmt.php>

#### **QUESTION 10**

Hotspot Question

You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker:

- Register an event listener for the web worker
- Start and stop the web worker

You need to define a function that performs the required tasks.

Which code segment should you use? (To answer, select the appropriate option from the drop-down list in the answer area.)

```
self.postMessage('Worker: ' + data);
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();

var data = event.data;
switch (data.cmd) {
    case 'start':
        self.postMessage('Worker: ' + data);
        self.postMessage('Worker: ' + data);
        self.addEventListener('message', function(event));
        self.attachEvent('Worker', data);
        self.terminate();
        self.close();
        break;
    case 'stop':
        self.postMessage('Worker: ' + data);
        self.postMessage('Worker: ' + data);
        self.addEventListener('message', function(event));
        self.attachEvent('Worker', data);
        self.terminate();
        self.close();
        break;
    default:
        self.postMessage('Try again: ' + data.msg);
    default:
        self.postMessage('Try again: ' + data.msg);
}
}, false);
```

**Answer:**

```
self.postMessage('Worker: ' + data);
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();

var data = event.data;
switch (data.cmd) {
    case 'start':
        self.postMessage('Worker: ' + data);
        self.postMessage('Worker: ' + data);
        self.addEventListener('message', function(event));
        self.attachEvent('Worker', data);
        self.terminate();
        self.close();
        break;
    case 'stop':
        self.postMessage('Worker: ' + data);
        self.postMessage('Worker: ' + data);
        self.addEventListener('message', function(event));
        self.attachEvent('Worker', data);
        self.terminate();
        self.close();
        break;
    default:
        self.postMessage('Try again: ' + data.msg);
    default:
        self.postMessage('Try again: ' + data.msg);
}
}, false);
```

**QUESTION 11**

Hotspot Question

You are creating a function by using JavaScript. The function accepts an object as the parameter and returns a string that identifies the data type of the object.

You have the following requirements:

- The function must return "Number" if the object is a number.
- The function must return "String" if the object is a string.
- The function must return "Unknown" if the object is neither a number nor a string.

You need to implement the function to meet the requirements.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
function GetObjectType(obj) {  
    default (obj.constructor) {  
        default  
        switch  
        break  
        case  
  
        default Number:  
        default  
        switch  
        break  
        case  
  
            return "Number";  
  
        default ;  
        default  
        switch  
        break  
        case  
  
            default String:  
            default  
            switch  
            break  
            case  
  
                return "String";  
  
            default ;  
            default  
            switch  
            break  
            case  
  
                default :  
                default  
                switch  
                break  
                case  
  
                    return "Unknown";  
    }  
}
```

**Answer:**

```
function GetObjectType(obj) {
    default      (obj.constructor) {
        default
        switch
        break
        case
    }
    default      Number:
    default
    switch
    break
    case
    return "Number";
}

default      ;
default
switch
break
case
String:
default
default
switch
break
case
return "String";
}

default      ;
default
switch
break
case
default      :
default
switch
break
case
return "Unknown";
}
}
```

**QUESTION 12**

You need to test the value of the following variable in JavaScript.

```
var length = "75";
```

A block of code must execute if the length equals 75 regardless of the data type.

You need to use the statement that meets this requirement.

Which lines of code should you use? (Each correct answer presents a complete solution. Choose two.)

- A. if (length == 75)
- B. if (length == 75)
- C. if (length! = 75)
- D. if (length == "75")

**Answer:** BD

### QUESTION 13

You are developing an application that uses a third-party JavaScript library named doWork(). The library occasionally throws an "object is null or undefined" error with an error code of -2146823281.

The application must:

- Extract and handle the exceptions thrown by doWork()
- Continue normal program execution if other exceptions occur

You need to implement the requirements.

Which code segment should you use?

- A. 

```
if (doWork() == -2146823281) {  
    ...  
}
```
- B. 

```
if (doWork() == "object is null or undefined") {  
    ...  
}
```
- C. 

```
try {  
    doWork();  
} catch(e) {  
    if (e.number == -2146823281)  
        ...  
}
```
- D. 

```
try {  
    doWork();  
} catch(e) {  
    if (e.message == -2146823281)  
        ...  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### QUESTION 14

You are troubleshooting a web page that includes the following code. (Line numbers are included for reference only.)

```
01 <!DOCTYPE html>
02 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
03 <head>
04   <meta charset="utf-8" />
05   <title></title>
06   <script>
07     document.addEventListener("DOMContentLoaded", function () {
08       var elButton = document.getElementById("myButton");
09       var elDiv = document.getElementById("myDiv");
10       elButton.addEventListener("click", function () {
11         alert(this.type);
12       }, false);
13     }, false);
14   </script>
15 </head>
16 <body>
17   <div id="myDiv">Test</div>
18   <input type="button" id="myButton" value="Click Me" />
19 </body>
20 </html>
```

What is displayed in the alert from line 11?

- A. Div
- B. Function
- C. Button
- D. Document

**Answer:** C

#### QUESTION 15

Hotspot Question

You are developing a web page that will be accessed from various types of devices.

You have the following requirements:

- The appropriate display resolution must be selected dynamically based on the device connecting to the page.
- Mobile devices with a maximum width of 480 pixels must be able to use the page.

You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
@media screen and (min-width:200px) and (max-width:480px)
{
    screen and (min-width:200px) and (max-width:480px)
    size and (min-width:200px) and (max-width:480px)
    screen and (min-width:480px)
    size and (min-width:480px)

#navbar {
    float: none;
    width: 200px;
}
}

@media screen and (min-width:200px) and (max-width:480px)
{
    screen and (min-width:200px) and (max-width:480px)
    size and (min-width:200px) and (max-width:480px)
    screen and (min-width:480px)
    size and (min-width:480px)

}

{
    #navbar {
        float: left;
        width: 500px;
    }
}
```

**Answer:**

```
@media screen and (min-width:200px) and (max-width:480px)
{
    screen and (min-width:200px) and (max-width:480px)
    size and (min-width:200px) and (max-width:480px)
    screen and (min-width:480px)
    size and (min-width:480px)

#navbar {
    float: none;
    width: 200px;
}
}

@media screen and (min-width:200px) and (max-width:480px)
{
    screen and (min-width:200px) and (max-width:480px)
    size and (min-width:200px) and (max-width:480px)
    screen and (min-width:480px)
    size and (min-width:480px)

}

{
    #navbar {
        float: left;
        width: 500px;
    }
}
```

**QUESTION 16**

You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which values are valid for the text-transform property?

- A. hidden
- B. blink
- C. capitalize
- D. line-through

**Answer:** C

**Explanation:**

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;}
h2 {text-transform:capitalize;}
p {text-transform:lowercase;}
```

**QUESTION 17**

Drag and Drop Question

You are developing a website that has many web pages with hyperlinks to other sites.

You need to ensure that if a hyperlink contains an image, the linked web page opens in a new window.

Which jQuery code segment or segments should you use? (To answer, drag the appropriate line of code to the correct location. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

\$( "a img" ).each(function () {  
    \$(this).parent().attr('target', '\_blank')  
  
\$( "a" ).each(function () {  
    \$(this).attr('target', '\_blank')  
  
:::::::

**Answer Area**

```
<!DOCTYPE html>  
<html>  
<head>  
    <title></title>  
    <script src="http://code.jquery.com/jquery-latest.js">  
        </script>  
</head>  
<body>  
    <a href="http://www.microsoft.com">  
          
    </a>  
</body>  
<script>  
    $(document).ready(function () {  
        //  
        //  
    });  
});  
</script>  
</html>
```

**Answer:**

```
$("a img").each(function () {  
  
$(this).parent().attr('target', '_blank')  
  
$("a").each(function () {  
  
$(this).attr('target', '_blank')
```

\*\*\*\*\*

## Answer Area

```
<!DOCTYPE html>  
<html>  
<head>  
    <title></title>  
    <script src="http://code.jquery.com/jquery-latest.js">  
    </script>  
</head>  
<body>  
    <a href="http://www.microsoft.com">  
          
    </a>  
</body>  
<script>  
    $(document).ready(function () {  
        $("a img").each(function () {  
  
            $(this).parent().attr('target', '_blank')  
        });  
    });  
    </script>  
</html>
```

**QUESTION 18**

You are developing a page that includes text and an illustration. The web page resembles the following image.

ris nisi ut aliquip ex ea commodo consequat. Duis aute i  
velit esse cillum dolore eu fugiat nulla pariatur. Exceptet  
sunt in culpa qui officia di  
arum und lookum like  
distinct. Nam liber te conse  
se ciuda Et tam neque pi  
libidig met, consectetur a  
na aliquam makes one w  
s nostrud exercitation  
voluptate velit esse cillum  
rinde ad eos et accusam dignissum qui blandit est praes  
t occae. Et harum deraed facilis est er expedit distinct  
est congue nihil impedit doming id Lorem ipsum dolor:



You have the following requirements:

- The illustration must be in the center of the page.

- The text must flow around the left, right, top, and bottom of the illustration.

You need to ensure that the layout of the web page meets the requirements.

Which line of code should you use?

- A. -ms-wrap-side: both;
- B. -ms-wrap-side: clear;
- C. -ms-wrap-side: maximum;
- D. -ms-wrap-side: auto;

**Answer:** A

**Explanation:**

[http://msdn.microsoft.com/en-us/library/ie/hh673558\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx)

<http://dev.w3.org/csswg/css3-exclusions/>

### QUESTION 19

You are developing a web page that has a group of H1 and H2 elements. The page also includes a CSS class named underlineMe.

You have the following requirements:

- The font color of all H1 and H2 elements must be changed to red.
- The CSS class underlineMe must be applied to all H1 and H2 elements.

You need to update the web page to meet the requirements.

Which code segment should you use?

- A. `$(":head").addClass('underlineMe');  
$(":head").css({ color: 'red' });`
  - B.  `$("h1").css({ color: 'red' });  
$("h1").addClass('underlineMe');`
  - C.  `$("h2").css({ color: 'red' });  
$("h2").addClass('underlineMe');`
  - D.  `$(":header").css({ color: 'red' });  
$(":header").addClass('underlineMe');`
- A. Option A
  - B. Option B
  - C. Option C
  - D. Option D

**Answer:** D

**Explanation:**

[http://www.w3schools.com/jquery/sel\\_header.asp](http://www.w3schools.com/jquery/sel_header.asp)

### QUESTION 20

Hotspot Question

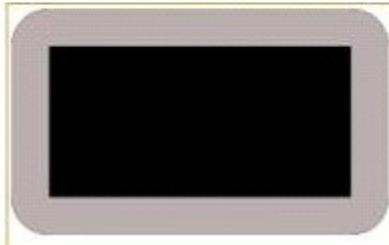
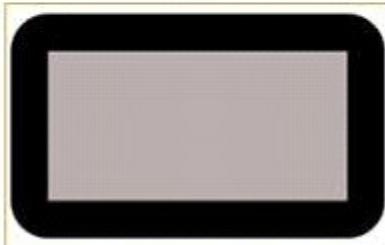
You are developing an HTML5 application for a company. You apply the following style to a DIV

element on a page.

```
div
{
    border:3px solid;
    background:#b6aaaa;
    width:200px;
    height:100px;
    top: 10%;
    left:10%;
    border-radius:25px 0px 25px 0px;
}
```

You need to submit a draft illustration of the results of this code.

Which illustration should you submit? (To answer, select the appropriate illustration in the answer area.)



**Answer:**



## QUESTION 21

## Drag and Drop Question

You are developing a web page that will be accessed from various types of devices.

You have the following requirements:

- The appropriate display resolution must be selected dynamically based on the device that is connecting to the page.
- Mobile devices with a maximum width of 480 pixels must be able to use the page.

You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, drag the appropriate media statement to the correct location. Each media statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

screen and (min-width:200px) and (max-width:480px)

size and (min-width:200px) and (max-width:480px)

screen and (min-width:480px)

size and (min-width:480px)

```
@media [ ] {  
  
    #navbar {  
        float: none;  
        width: 200px;  
    }  
}  
@media [ ] {  
  
    #navbar {  
        float: left;  
        width: 500px;  
    }  
}
```

**Answer:**

screen and (min-width:200px) and (max-width:480px)

size and (min-width:200px) and (max-width:480px)

screen and (min-width:480px)

size and (min-width:480px)

```
@media screen and (min-width:200px) and (max-width:480px)
{
    #navbar {
        float: none;
        width: 200px;
    }
}
@media screen and (min-width:480px)
{
    #navbar {
        float: left;
        width: 500px;
    }
}
```

**QUESTION 22**

Drag and Drop Question

You are developing a web page by using HTML5 and CSS3.

Hyperlinks on the page must be rendered with a style that reflects the last user action performed.

You need to style the four anchor elements in the document.

In what order should you specify the four anchor selectors? (To answer, move the appropriate anchor selectors from the list of CSS codes to the answer area and arrange them in the correct order.)

A:link

A:visited

A:hover

A:active

**Answer:**



**QUESTION 23**

You would like to create a web application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Answer:** ABCD

**QUESTION 24**

You would like to create a Windows 8 application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Answer:** ABCE

**QUESTION 25**

You would like to create web applications and Windows 8 Windows Store applications by using HTML5, JavaScript, and CSS3, but while you're learning, you don't want to buy Visual Studio 2012. Which of the following Visual Studio 2012 editions can you use for free to accomplish your goal?

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web and Visual Studio Express 2012 for Windows 8

**Answer:** D

**QUESTION 26**

You would like to create a Windows 8 application by using Blend and HTML5, JavaScript, and CSS3. Which feature of Blend enables you to pause an application when it reaches a desired state so you can set the style rules for the page and its controls while in this state? (Choose all that apply.)

- A. Assets panel
- B. Projects panel
- C. Visual Design
- D. Interactive mode

**Answer:** CD

**QUESTION 27**

You are developing a web form that includes the following HTML.

```
<input id="txtValue" type="text" />
```

You need to ensure that a value is entered into txtValue before the form is submitted.

Which code segment should you use?

- A. 

```
function validate() {
    var name = $("#txtValue").val();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```
- B. 

```
function validate() {
    var value = $("#txtValue").val();
    var regex = /^[\\d\\,.]*$/;
    if (!regex.test(value))
        alert("please enter valid value");
    return;
}
```
- C. 

```
function validate() {
    var name = $("#txtValue").get();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```
- D. 

```
function validate() {
    var value = $("#txtValue").get();
    var regex = /^[A-Za-z]{3}/;
    if (!regex.test(value) || value == "")
        alert("please enter valid value");
    return;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

**QUESTION 28**

Hotspot Question

You are developing a form that captures a user's email address by using HTML5 and jQuery.

- The form must capture the email address and return it as a query string parameter.
- The query string parameter must display the @ symbol used in the email address.

You need to implement this functionality.

How should you develop the form? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<!DOCTYPE html>
<html>
<head>
<script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
<form>
<input type="text" name="email" />
<input type="submit" value="Submit" />
</form>
<script>
 $("form").submit(function () {
 var str;
 str = $("form").serialize();
 str = decodeURIComponent(str);
 str = $("form").contents.toString();
 str = $("form").toLocaleString();
 str = decodeURI(str);
 . . .
 str = $("form").serialize();
 str = decodeURIComponent(str);
 str = $("form").contents.toString();
 str = $("form").toLocaleString();
 str = decodeURI(str);
 . . .
 return true;
 });
</script>
</body>
</html>
```

**Answer:**

```
<!DOCTYPE html>
<html>
<head>
<script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
<form>
<input type="text" name="email" />
<input type="submit" value="Submit" />
</form>
<script>
 $("form").submit(function () {
    var str;
    str = $("form").serialize();
    str = decodeURIComponent(str);
    str = $("form").contents.toString();
    str = $("form").toLocaleString();
    str = decodeURI(str);
    .
    .
    .
    return true;
});
</script>
</body>
</html>
```

**QUESTION 29**

You are developing a web page that consumes a Windows Communication Foundation (WCF) service. The page includes the following code segment.

```
var xhr = new XMLHttpRequest();
```

The page uses the `xhrHandler()` method to listen for changes to the request status of the WCF service calls. It uses the `xmlToJavaScript()` method to convert the response from the WCF service to a JavaScript object.

The `xhrHandler()` method must be called automatically each time the request status changes.

You need to add the event handler to the request object.

Which line of code should you use?

- A. `xhr.onCallback = xhrHandler;`
- B. `xhr.onreadystatechange = xhrHandler;`
- C. `xhr.readyState = xhrHandler;`



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D. xhr.status = xhrHandler;

**Answer:** B

**Explanation:**

<http://mrfwebdesign.blogspot.ca/2008/11/xmlhttprequest-xhr.html>

### **QUESTION 30**

Drag and Drop Question

You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker:

- Register an event listener for the web worker
- Start and stop the web worker

You need to define a function that performs the required tasks.

Which line of code should you use? (To answer, drag the appropriate line or lines of code to the correct location or locations. Each line of code may be used once, more than once, or not at all.)

You may need to drag the split bar between panes or scroll to view content.)

```
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();
```

:::::::

```
var data = event.data;
switch (data.cmd) {
    case 'start':
        // code to start worker
        break;
    case 'stop':
        // code to stop worker
        break;
    default:
        self.postMessage('Try again: ' + data.msg);
}
}, false);
```

**Answer:**

```
self.postMessage('Worker: ' + data);
```

```
self.addEventListener('message', function(event));
```

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

```
self.close();
```

:::::::

```
self.addEventListener('message', function(event));
```

```
    var data = event.data;
```

```
    switch (data.cmd) {
```

```
        case 'start':
```

```
            self.postMessage('Worker: ' + data);
```

```
            break;
```

```
        case 'stop':
```

```
            self.close();
```

```
            break;
```

```
        default:
```

```
            self.postMessage('Try again: ' + data.msg);
```

```
    };
```

```
, false);
```

**QUESTION 31**

You are developing a web application that uses web workers to process images extracted from an HTML5 CANVAS object on a web page.

You need to pass messages between the web workers and the web page.

Which three types of objects should you use? (Each correct answer presents a complete solution. Choose three.)

- A. JSON
- B. Window
- C. Parent
- D. String
- E. JavaScript
- F. DOM



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**Answer:** ADE

### **QUESTION 32**

Drag and Drop Question

You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and to search for tickets.

You have the following requirements:

- Users must be able to save information in the application about their favorite destination airport.
- The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which line or lines of code should you use? (To answer, drag the appropriate command or commands from the list of commands to the correct location or locations in the work area. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
var dest = localStorage.destination;  
localStorage.destination = dest;  
  
var dest = sessionStorage.destination;  
sessionStorage.destination = dest;
```

```
.....  
  
<body>  
    <input id="txtDest" type="text" />  
    <input type="button" value="Submit"  
          onclick="storeDestination('txtDest')" />  
    <script>  
        showDestination();  
        function showDestination() {  
  
            .....  
  
            if (dest != null)  
                document.getElementById("txtDest").value = dest;  
        }  
  
        function storeDestination(id) {  
            var dest = document.getElementById(id).value;  
  
            .....  
        }  
    </script>  
 </body>
```

**Answer:**

```
var dest = localStorage.destination;  
localStorage.destination = dest;  
  
var dest = sessionStorage.destination;  
sessionStorage.destination = dest;
```

```
<body>  
    <input id="txtDest" type="text" />  
    <input type="button" value="Submit"  
        onclick="storeDestination('txtDest')" />  
    <script>  
        showDestination();  
        function showDestination() {  
  
            var dest = localStorage.destination;  
  
            if (dest != null)  
                document.getElementById("txtDest").value = dest;  
        }  
  
        function storeDestination(id) {  
            var dest = document.getElementById(id).value;  
  
            localStorage.destination = dest;  
  
        }  
    </script>  
</body>
```

**QUESTION 33**

You are creating a class named Sedan that must inherit from the Car class. The Sedan class must modify the inherited fourDoor () method. The Car class is defined as follows.

```
function Car() {}  
Car.prototype.fourDoor = function () {  
    alert('four doors');  
}
```

Future instances of Sedan must be created with the overridden method.

You need to write the code to implement the Sedan class.

Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. 

```
Sedan.fourDoor = function ()  
{  
    alert('door count');  
}
```
- B. 

```
Sedan.prototype.fourDoor = function ()  
{  
    alert('door count');  
}
```
- C. 

```
function Sedan()  
{  
    Car.call(this);  
}  
Sedan.prototype = new Car();  
Sedan.prototype.constructor = Sedan;
```
- D. 

```
function Sedan()  
{  
    Car.call(this);  
}  
Sedan.prototype.constructor = Sedan.create;
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** BC

#### **QUESTION 34**

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

- A. <nav>
- B. <article>
- C. <span>
- D. <div>

**Answer:** B

**Explanation:**

[http://www.w3schools.com/tags/tag\\_article.asp](http://www.w3schools.com/tags/tag_article.asp)  
[http://www.w3schools.com/html/html5\\_new\\_elements.asp](http://www.w3schools.com/html/html5_new_elements.asp)

**QUESTION 35**

You are developing application web form by using HTML5 and JavaScript.

You need to prevent users from submitting form data more than once.

Which code segment should you use?

- A. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable(this)" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable(this)" />
    <script>
        function disable(ctrl) {
            ctrl.disabled = true;
        }
    </script>
</body>
```
- B. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
    <script>
        function disable() {
            this.disabled = true;
        }
    </script>
</body>
```
- C. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
    <script>
        function disable() {
            document.getElementById("btn" + this.name).disabled = true;
        }
    </script>
</body>
```
- D. 

```
<body>
    <input id="btnSubmit" type="button" value="Submit" onclick="disable(me)" />
    <input id="btnCancel" type="button" value="Submit" onclick="disable(me)" />
    <script>
        function disable(ctrl) {
            ctrl.disabled = true;
        }
    </script>
</body>
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

**QUESTION 36**

You are developing an HTML5 web application for a surveyor company that displays topographic images.

The application must:

- Display the topographic images at different zoom levels without loss of

detail

- Print the topographic images without loss of detail
- Work from only one source file for each topographic image

You need to ensure that the topographic images display according to the requirements.

Which HTML5 element should you use?

- A. SVG
- B. CANVAS
- C. SAMP
- D. AREA

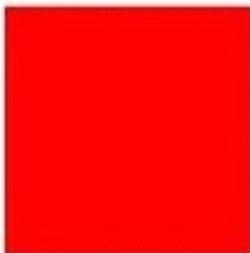
**Answer:** A

**QUESTION 37**

Drag and Drop Question

An HTML page has a CANVAS element.

You need to draw a red rectangle on the CANVAS element dynamically. The rectangle should resemble the following graphic.



How should you build the code segment? (To answer, drag the appropriate line of code to the correct location. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
context.fillRect(50, 50, 100, 100);

context.fillStyle = "rgb(255, 0, 0)";

var canvas = document.getElementById('mycanvas');

var canvas = document.beginPath();

context.fillSquare(50, 50, 100, 100);
```

:::::::

```
<!DOCTYPE html>

<html>
<body>

<canvas id="mycanvas" width="300" height="300"></canvas>

<script type="text/javascript">

    var context = canvas.getContext('2d');

</script>

</body>
</html>
```

**Answer:**

```
context.fillRect(50, 50, 100, 100);  
  
context.fillStyle = "rgb(255, 0, 0)";  
  
var canvas = document.getElementById('mycanvas');  
  
var canvas = document.beginPath();  
  
context.fillSquare(50, 50, 100, 100);
```

.....

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
    <canvas id="mycanvas" width="300" height="300"></canvas>  
  
    <script type="text/javascript">  
  
        var canvas = document.getElementById('mycanvas');  
        var context = canvas.getContext('2d');  
        context.fillStyle = "rgb(255, 0, 0)";  
        context.fillRect(50, 50, 100, 100);  
    </script>  
  
</body>  
  
</html>
```

**QUESTION 38**

You are modifying a website. The body of the page will be divided into two sections:

- A content section will contain blog posts and comments.
  - An area on the right-hand side will contain advertisements.
- The page is defined by the following HTML.

```
<table width="100%" border="1">
  <tr>
    <td class="header" colspan="2">
      Welcome to My Blog!
    </td>
  </tr>
  <tr>
    <td width="70%">
      ...
    </td>
    <td width="30%">
      ...
    </td>
  </tr>
  <tr>
    <td class="footer" colspan="2">
      ...
    </td>
  </tr>
</table>
```

The site must conform to HTML5 standards and must use HTML5 semantic tags.  
You need to ensure that the advertisements are on the rightmost section of the page.  
Which tag should you use?

- A. <aside>
- B. <div>
- C. <article>
- D. <footer>

**Answer:** A

#### **QUESTION 39**

You are developing an HTML5 page.  
You need to add author and copyright information.  
Which tag should you use?

- A. <aside>
- B. <header>
- C. <footer>
- D. <section>

**Answer:** C

#### **QUESTION 40**

You are developing an HTML5 web application and are styling text.  
You need to use the text-transform CSS property.  
Which value is valid for the text-transform property?

- A. Lowercase
- B. Blink
- C. Line-through
- D. 20px

**Answer:** A

#### QUESTION 41

Drag and Drop Question

You are developing a web page for runners who register for a race.

The page includes a slider control that allows users to enter their age.

You have the following requirements:

- All runners must enter their age.
- Applications must not be accepted from runners less than 18 years of age or greater than 90 years.
- The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

You need to ensure that the slider control meets the requirements.

What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
<input  
    type="range"  
    min="0"  
    max="100"  
    step="1"  
    value="37"  
/>
```

**Answer:**

range	<input
slider	type="range"
0	min="18"
18	max="90"
90	step="value"
100	value="37"
37	required
avgAge()	/>
default	
value	
required	
optional	

#### QUESTION 42

You are creating a JavaScript object that represents an employee.

You need to extend the Employee object by adding the GetPayroll() method.

You need to ensure that all future instances of the Employee object implement the GetPayroll() method.

Which code segment should you use?

- C A. Employee.apply.GetPayroll() = function()  
{  
 alert("payroll");  
}
  
  - C B. Employee.prototype.GetPayroll = function Employee.GetPayroll()  
{  
 alert("payroll");  
}
  
  - C C. Employee.GetPayroll() = function(){  
 alert("payroll");  
}
  
  - C D. Employee.prototype.GetPayroll = function()  
{  
 alert("payroll");  
}
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

#### QUESTION 43

You are developing an HTML5 page that includes several paragraph elements.

You have the following requirements:

- Add a drop shadow that is one inch below the text in the paragraph
- Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements.

Which CSS style should you use?

- A. Text-shadow: 72pt 0pt 5pt
- B. Text-shadow: 5px 1in 0px;
- C. Text-shadow: 72pt 0em 5px;
- D. Text-shadow: 100px 0px 5px;

**Answer:** B

**Explanation:**

We set the second argument (vertical) to one inch (1in).

Note

Syntax

text-shadow: h-shadow v-shadow blur color;

Note: The text-shadow property attaches one or more shadows to text. The property is a comma-

separated list of shadows, each specified by 2 or 3 length values and an optional color. Omitted lengths are 0.

\* h-shadow

Required. The position of the horizontal shadow. Negative values are allowed

\* v-shadow

Required. The position of the vertical shadow. Negative values are allowed

\* blur

Optional. The blur distance

\* color

Optional. The color of the shadow.

#### QUESTION 44

You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Capitalize
- B. Red
- C. 20px
- D. Italic

**Answer:** A

**Explanation:**

[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;}  
h2 {text-transform:capitalize;}  
p {text-transform:lowercase;}
```

#### QUESTION 45

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

- A. <article>
- B. <table>
- C. <div>
- D. <span>

**Answer:** A

**Explanation:**

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

Forum post

Blog post

News story

Comment

#### QUESTION 46

You are developing an HTML5 page that has an element with an ID of picture. The page includes

the following HTML.

```
<div>
  Picture:<br />
  <div id = "picture">
  </div>
</div>
```

You need to move the picture element lower on the page by five pixels.

Which two lines of code should you use? (Each correct answer presents part of the solution. Choose two.)

- A. document.getElementById("picture").style.position = "relative";
- B. document.getElementById("picture").style.top = "5px";
- C. document.getElementById("picture").style.top = "-5px";
- D. document.getElementById("picture").style.position = "absolute";

**Answer:** AB

**Explanation:**

We use relative position to move the position 5 pixels lower on page.

Using a negative value would move the picture higher on the page.

Note:

\* The top property sets or returns the top position of a positioned element.

This property specifies the top position of the element including padding, scrollbar, border and margin.

Syntax

Set the top property:

Object.style.top="auto|length|%|inherit"

Where:

Length defines the top position in length units. Negative values are allowed

#### **QUESTION 47**

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

- A. <section>
- B. <tbody>
- C. <div>
- D. <table>

**Answer:** A

**Explanation:**

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

#### **QUESTION 48**

You are developing a customer web form that includes the following HTML.

<input id="txtValue"/>

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

- A. <input id="txtValue" type="country"/>

- B. <input id="txtValue" type="text" required="xxx"/>
- C. <input id="txtValue" type="text" pattern=" [A-Za-z] {3} "/>
- D. <input id="txtValue" type="code" pattern="country"/>

**Answer:** C

#### **QUESTION 49**

You are developing an HTML5 web application and are styling text.  
You need to use the text-transform CSS property.  
Which value is valid for the text-transform property?

- A. Capitalize
- B. Hidden
- C. Italic
- D. Line-through

**Answer:** A

#### **QUESTION 50**

You are developing an HTML5 web application and are styling text.  
You need to use the text-transform CSS property.  
Which value is valid for the text-transform property?

- A. Italic
- B. Line-through
- C. Capitalize
- D. 20px

**Answer:** C

#### **QUESTION 51**

You are modifying a blog site to improve search engine readability.  
You need to group relevant page content together to maximize search engine readability.  
Which tag should you use?

- A. <tbody>
- B. <article>
- C. <div>
- D. <span>

**Answer:** B

#### **QUESTION 52**

You are modifying a blog site to improve search engine readability.  
You need to group relevant page content together to maximize search engine readability.  
Which tag should you use?

- A. <span>
- B. <nav>
- C. <cable>
- D. <section>

**Answer:** D**Explanation:**

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

**QUESTION 53**

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. red
- B. hidden
- C. lowercase
- D. italic

**Answer:** C**QUESTION 54**

You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. lowercase
- B. 20px
- C. line-through
- D. italic

**Answer:** A**QUESTION 55**

Drag and Drop Question

You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets.

The styles are not being applied correctly to the pages in the application.

You need to determine the order in which the style sheets will be applied by the browser.

In which order will the five style sheets be applied? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the order that they will be applied.)

The image shows a Windows desktop environment. On the left, there is a list of five style sheet types: "user agent style sheets", "user normal style sheets", "author normal style sheets", "author important style sheets", and "user important style sheets". Each item is enclosed in a yellow rectangular box. To the right of this list is a vertical blue line, suggesting a drop zone for dragging the items. The background shows parts of a window and a taskbar at the bottom.

**Answer:**

user agent style sheets

user normal style sheets

author normal style sheets

author important style sheets

user important style sheets

user agent style sheets

user normal style sheets

author normal style sheets

author important style sheets

user important style sheets

**QUESTION 56**

You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Italic
- B. Red
- C. Capitalize
- D. Line-through

**Answer:** C

**QUESTION 57**

You develop an HTML5 webpage. You have the following HTML markup: (Line numbers are for reference only.)

```
01 <table>
02   <tr>
03     <th>Fruit</th>
04     <th>Quantity</th>
05     <th>Price</th>
06   </tr>
07   <tr>
08     <td>Apples</td>
09     <td>48</td>
10     <td>$0.29</td>
11   </tr>
12   <tr>
13     <td>Bananas</td>
14     <td>72</td>
15     <td>$0.19</td>
16   </tr>
17   <tr>
18     <td>Watermelon</td>
19     <td>14</td>
20     <td>$3.99</td>
21   </tr>
22 </table>
```

The webpage also contains the following CSS markup:

```
table { border: 1px solid black; font-family: Arial; }
tr:nth-child(odd) { background-color: red; }
tr td:nth-of-type(even) {background-color: blue; }
```

You need to determine how the webpage will appear when the CSS styles are applied. Select two.

- A. The first row of the table will have a red background.
- B. The second row of the table will have a red background.
- C. The second cell in the first row of the table will have a blue background.
- D. The second cell in the third row of the table will have a blue background.
- E. The second cell in the third row of the table will have not have blue background.

**Answer:** AE

#### **QUESTION 58**

Hotspot Question

You are reviewing the CSS markup for an HTML5 page that displays a news article. The CSS markup for the page is as follows:

```
h4 {  
    color: powderblue;  
}  
.headline {  
    color: red;  
}  
article {  
    color: black;  
    font-style: normal;  
}  
aside h4 {  
    font-style: italic !important;  
    color: yellow;  
}  
article h4 {  
    font-style: normal;  
    color: sienna;  
}
```

The HTML markup for the page is as follows:

```
<div>  
    <h4>International News</h4>  
    <article>  
        <h4 class="headline">New Developments!</h4>  
        <aside>  
            <h4>Impact On Markets</h4>  
        </aside>  
    </article>  
</div>
```

For each statement in the table, select Yes if the code segments above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input type="radio"/>	<input type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input type="radio"/>	<input type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input type="radio"/>	<input type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

**Answer:**

Yes	No	Description of Behavior
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input checked="" type="radio"/>	<input type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

### QUESTION 59

Hotspot Question

You review code that uses WebSockets for a browser-based multiplayer game. Each player sends a move to the server, which then sends the move to all connected game instances. The following code runs in the browser and handles the sending and receiving of moves:

```
var moveList = new Array();
var myMoves = {};
```

```
var server = new WebSocket('ws://gameserver.proseware.com/');
server.onmessage = function(message) {
    if (myMoves[message.data.id] == undefined)
        moveList.push(message.data);
};

server.onopen = function() {
    server.send(getUserName());
};

function sendMove() {
    var nextMove = getMove();
    myMoves[nextMove.id] = nextMove;
    server.send(nextMove);
}
```

For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of Behavior
<input type="radio"/>		The moves are added to the moveList array in the order in which they were played.
<input type="radio"/>		The username is sent to the server before any moves are sent or received.
<input type="radio"/>	<input type="radio"/>	The player's own moves will be added to the moveList array.

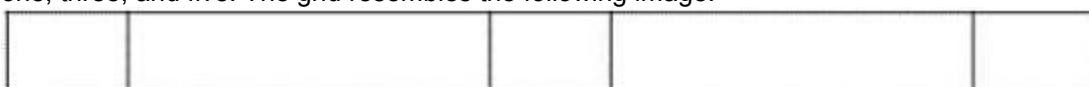
**Answer:**

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input checked="" type="checkbox"/>		The moves are added to the moveList array in the order in which they were played.
<input checked="" type="checkbox"/>		The username is sent to the server before any moves are sent or received.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	The player's own moves will be added to the moveList array.

### QUESTION 60

You develop a webpage.

The webpage must display a grid that contains one row and five columns. Columns one, three, and five are the same width. Columns two and four are the same width, but much wider than columns one, three, and five. The grid resembles the following image:



The grid must meet the following requirements:

- Each row must be tall enough to ensure that images are not cut off.
- Each row must contain five columns.
- The width of the columns must not change when the screen is resized or rotated.

You need to define the style for the grid. Which CSS3 style should you use?

- C A. 

```
<style type="text/css">
    #grid {
        display: -ms-grid;
        -ms-grid-columns: 2fr (3fr 2fr) [2];
        -ms-grid-rows: auto;
    }
</style>
```
- C B. 

```
<style type="text/css">
    #grid {
        display: -ms-grid;
        -ms-grid-columns: 100px (250px 100px) [2];
        -ms-grid-rows: min-content;
    }
</style>
```
- C C. 

```
<style type="text/css">
    #grid {
        display: -ms-grid;
        -ms-grid-columns: 100px 250px 100px 250px 100px;
        -ms-grid-rows: auto;
    }
</style>
```
- C D. 

```
<style type="text/css">
    #grid {
        display: -ms-grid;
        -ms-grid-columns: 100px 250px 100px 250px 100px;
        -ms-grid-rows: min-content;
    }
</style>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

**Explanation:**

\* -ms-grid-rows property

auto

The height of a row is computed based on the tallest child element in that column.

Incorrect:

Not A: The width of the columns must not change when the screen is resized or rotated.

Not B, Not D: -ms-grid-rows property

min-content

The minimum height of any child elements is used as the height of the row.

Note:

**\* width**

The width of each column specified as one of the following values:

A length consisting of an integer number, followed by an absolute units designator ("cm", "mm", "in", "pt", or "pc") or a relative units designator ("em", "ex", or "px").

A percentage of the object width.

A proportion of the remaining horizontal space (that is, the object width, less the combined widths of other tracks), consisting of an integer number followed by a fractional designator ("fr"). For example, if "200px 1fr 2fr" is specified, the first column is allocated 200 pixels, and the second and third columns are allocated 1/3 and 2/3 of the remaining width, respectively.

**QUESTION 61**

You implement an application by using HTML5 and JavaScript. You create a webpage that contains the following HTML:

```
<!DOCTYPE html>
<html>
<head>
    <link href="site.css" rel="stylesheet" type="text/css" />
    <script type="text/javascript" src="jquery.js"></script>
</head>
<body>
    <div id="container">
        <ul>
            <li>First List Item
                <ul>
                    <li>Child List Item</li>
                </ul>
            </li>
            <li>Second List Item</li>
            <li>Third List Item</li>
            <li>Fourth List Item</li>
        </ul>
        <p>Some interesting information that we need to display.</p>
        <p>More information that is important to this page.</p>
    </div>
</body>
</html>
```

The application must place a border on only the first UL element that is contained in the DIV element.

You need to update the webpage.

What should you do?

- C A. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div").each(function () {
    $("ul").each(function (index, domEle) {
      $(domEle).css("border", "1px solid black");
    });
  });
</script>
```

- C B. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div#container > ul").css("border", "1px solid black");
</script>
```

- C C. Add the following SCRIPT element after the DIV element:

```
<script>
  $("ul:first-of-type").css("border", "1px solid black");
</script>
```

- C D. Add the following style to the site.css file:

```
.container > ul {
  border: 1px solid black;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

#### **QUESTION 62**

You troubleshoot a webpage that contains the following HTML element:

```
<canvas id= "clickCanvas" width="300"> height= "300">Your browser does
not support the HTML5 canvas.</canvas>
```

The following JavaScript code is included in a script tag in the HEAD section of the webpage: (Line numbers are included for reference only.)

```
01 var canvas;
02 var context;
03 window.onload = function initialize() {
04     canvas = document.getElementById('clickCanvas');
05     context = canvas.getContext('2d');
06     drawBox();
07 }
08 }
09 function clickReporter(e) {
10     alert('clicked');
11 }
12 function drawBox() {
13     context.fillStyle = 'black';
14     context.strokeRect(20, 20, canvas.width - 20, canvas.height - 20);
15 }
```

You need to invoke the clickReporter() JavaScript function when a user clicks the mouse on the canvas HTML element.

What should you do?

- A. Add the following attribute to the canvas HTML element:  
    clicked= "clickReporter()"
- B. Replace the code segment at line 06 with the following code segment:  
    drawBox.Click += clickReporter;
- C. Insert the following code segment at line 07:  
    canvas.onclick = clickReporter;
- D. Insert the following code segment at line 07:  
    canvas.click = clickReporter;

**Answer:** B

### QUESTION 63

You are implementing an application by using HTML5 and JavaScript. A web page contains the following HTML table.

```
<table id="dataTable">
  <tbody>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tbody>
  <tfoot>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tfoot>
</table>
```

The application must:

- Identify all rows in the table body that have a class attribute of selected
- Exclude the last selected row in the table

You need to implement the web page according to the requirements.

Which CSS selector should you use?

- A. tr:not(tr:last-child).selected < #dataTable
- B. #dataTable > tr.selected:not(tr:last-child)
- C. #dataTable tbody tr.selected:not(tr:last-child)
- D. #dataTable tr.selected:not(tr:last-child)

**Answer:** C

### QUESTION 64

Drag and Drop Question

You create the following JavaScript code:

```
var myApplication = myApplication || {};
myApplication.LoanCalculator = function (displayControl, principle, term, rate) {
    this.Principle = principle;
    this.Term = term;
    this.Rate = rate / 1200;
    this.PaymentAmount = 0;
    this.showPayment = document.getElementById(displayControl);
};
myApplication.LoanCalculator.prototype = {
    CalculatePayment: function () {
        this.PaymentAmount = (this.Principle * this.Rate / (1 - (Math.pow(1/(1 + this.Rate), this.Term)))).toFixed(2);
        this.showPayment.innerHTML = '$' + this.PaymentAmount;
    },
    ShowCanWeAfford: function () {
    }
};
```

You must complete the ShowCanWeAfford() function:

Display the message Denied! If the PaymentAmount variable is greater than 500. Display the message Approved! If the PaymentAmount variable is less than 300. Display the message Approved with caution! If the PaymentAmount variable is less than 500 and greater than 300.

You need to add statements to the ShowCanWeAfford() JavaScript function to meet the requirements.

Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

## Answer Area

```
else if (this.PaymentAmount == 300) {
    alert('Approved!');
}

else if (this.PaymentAmount > 500 &&
this.PaymentAmount < 300) {
    alert('Approved with caution!');
}

else if (this.PaymentAmount < 300) {
    alert('Approved!');
}

if (this.PaymentAmount > 500) {
    alert('Denied!');
}

if (this.PaymentAmount >= 500) {
    alert('Denied!');
}

else {
    alert('Approved with caution!');
}

if (this.PaymentAmount >> 500) {
    alert('Denied!');
}

else if (this.PaymentAmount << 300) {
    alert('Approved!');
}
```

**Answer:**

## Answer Area

```
else if (this.PaymentAmount == 300) {  
    alert('Approved!');  
}
```

```
else if (this.PaymentAmount > 500 &&  
        this.PaymentAmount < 300) {  
    alert('Approved with caution!');  
}
```

```
else if (this.PaymentAmount < 300) {  
    alert('Approved!');  
}
```

```
if (this.PaymentAmount > 500) {  
    alert('Denied!');  
}
```

```
if (this.PaymentAmount >= 500) {  
    alert('Denied!');  
}
```

```
else {  
    alert('Approved with caution!');  
}
```

```
if (this.PaymentAmount >> 500) {  
    alert('Denied!');  
}
```

```
else if (this.PaymentAmount << 300) {  
    alert('Approved!');  
}
```

```
if (this.PaymentAmount > 500) {  
    alert('Denied!');  
}
```

```
else if (this.PaymentAmount < 300) {  
    alert('Approved!');  
}
```

```
else {  
    alert('Approved with caution!');  
}
```

**QUESTION 65**

Drag and Drop Question

You have a webpage that includes the following markup:

```
<!DOCTYPE html>  
<html>  
    <head>  
        <script>  
        </script>  
    </head>  
    <body onload="readXMLFile()">  
        <div id="to"></div>  
        <div id="from"></div>  
        <div id="message"></div>  
    </body>  
</html>
```

An XML file named message.xml resides on a web server. The structure of the file is as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<messages>
    <to>JHartono@contoso.com</to>
    <from>JDow@contoso.com</from>
    <message>Meeting is cancelled</message>
</messages>
```

You are developing a code-based solution to parse the contents of the XML file and display the information on the page.

The solution must work on both modern and older browsers.

You need to display the information from the XML file onto the page.

How should you create the JavaScript code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

**Answer Area**

```
document.getElementById("to").innerHTML =
    xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue;
document.getElementById("from").innerHTML =
    xmlDoc.getElementsByTagName("from")
[0].childNodes[0].nodeValue;
document.getElementById("message").innerHTML =
    xmlDoc.getElementsByTagName("body")
[0].childNodes[0].nodeValue;

xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");

else {
    xmlhttp = new XMLHttpRequest();
}

xmlhttp.open("GET", "message.xml", false);

if (window.XMLHttpRequest) {

    xmlDoc = xmlhttp.responseXML;

    function readXMLFile() {

        xmlhttp.send();
```

**Answer:**

```

document.getElementById("to").innerHTML =
    xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue;
document.getElementById("from").innerHTML =
    xmlDoc.getElementsByTagName("from")
[0].childNodes[0].nodeValue;
document.getElementById("message").innerHTML =
    xmlDoc.getElementsByTagName("body")
[0].childNodes[0].nodeValue;

xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");

else {
    xmlhttp = new XMLHttpRequest();
}

xmlhttp.open("GET", "message.xml", false);

if (window.XMLHttpRequest) {
    xmlDoc = xmlhttp.responseXML;

    function readXMLFile() {
        xmlhttp.send();
    }
}

```

## Answer Area

```

if (window.XMLHttpRequest) {

xmlhttp = new XMLHttpRequest();

else {

xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");

xmlhttp.open("GET", "message.xml", false);

xmlhttp.send();

xmlDoc = xmlhttp.responseXML;

```

**QUESTION 66**

## Hotspot Question

You review a web form that contains the following markup and code:

```

<!DOCTYPE html>
<html>
    <head>
        <script type="text/javascript">
            function check1(currentTextBox) {
                if (currentTextBox.value === null || currentTextBox.value === '')
                    currentTextBox.style.background = '#ffffacd';
                else
                    currentTextBox.style.background = '#ffffff';
            }

            function check2() {
                var obj = document.getElementsByTagName('input');
                for (var i = 0; i < (obj.length - 1); i++) {
                    obj[i].style.background = '#ffffacd';
                }
            }
        </script>
    </head>
    <body>
        <input type="text" id="text1" onfocus="check1(this)" onblur="check1(this)">
        <input type="text" id="text2" onfocus="check1(this)" onblur="check1(this)">
        <input type="button" value="next" onclick="check2()">
    </body>
</html>

```

You need to ascertain how the webpage responds when it loads and how it reacts to user actions. For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

<b>Yes</b>	<b>No</b>	<b>Description of behavior</b>
<input type="radio"/>	<input type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input type="radio"/>	<input type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input type="radio"/>	<input type="radio"/>	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

**Answer:**

<b>Yes</b>	<b>No</b>	<b>Description of behavior</b>
<input type="radio"/>	<input checked="" type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input type="radio"/>	<input checked="" type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input checked="" type="radio"/>	<input type="radio"/>	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

### QUESTION 67

#### Hotspot Question

You test a webpage that contains the following JavaScript code:

```
<script type="text/javascript">
    onerror = unhandled;
    function unhandled(msg, url, line) {
        alert('There has been an unhandled exception.');
    }
    function add() {
        alert($("#int1").val() + $("#int2").val());
    }
    function divide() {
        if (isNaN($("#int1").val()) || isNaN($("#int2").val())) {
            throw('One or more values are non-numeric');
        }
        alert($("#int1").val() / $("#int2").val());
    }
</script>
```

The webpage also contains the following markup:

```
Integer 1: <input type="text" id="int1" /><br />
Integer 2: <input type="text" id="int2" /><br /><br />
<input type="button" name="add" value="Add" onclick="add();"/>
<input type="button" name="divide" value="Divide" onclick="divide();"/>
```

You need to ascertain how the webpage responds when the user enters characters and then clicks the add and divide buttons.

For each statement in the table, select Yes if the action causes the webpage to behave as

described. Select No if it does not. Make only one selection in each column.

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of <b>5</b> .
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

**Answer:**

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of <b>5</b> .
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input checked="" type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

### QUESTION 68

An HTML page contains no embedded JavaScript or CSS code. The body of the page contains only the following line of code.

<p id="test">test</p>

A CSS style sheet must be applied dynamically. The style must visibly change the appearance of the paragraph on the page.

You need to apply a style the paragraph.

Which line of code should you use?

- A. document.getElementById("test").style.border = "0";
- B. document.getElementById("test").style.position = "static";
- C. document.getElementById ("test").style.padding = "15px";
- D. document.getElementById("test").style.top = "5px";

**Answer: A**

**Explanation:**

A: The border shorthand property sets all the border properties in one declaration.

The properties that can be set, are (in order): border-width, border-style, and border-color.

It does not matter if one of the values above are missing, e.g. border:solid #ff0000; is allowed.

### QUESTION 69

You develop an HTML5 web application. The web application contains a form that allows users to enter only their month of birth.

The value that the users enter must be numbers between 1 and 12, inclusive.

You need to implement the form element for the month of birth.

Which element should you use?

- A. <input type="time" options="month" />
- B. <input types="submit" value="month" />
- C. <input type="range" min="1" max="12" />
- D. <input type="month" itemscope="numeric" />

**Answer: C****Explanation:**

Example:

```
</head>
<body>
<input type="range" name="rangeInput" min="0" max="100"
onchange="updateTextInput(this.value);"
<input type="text" id="textInput" value="">
</body>
</html>
```

**QUESTION 70**

You are developing an HTML5 web application for an architectural company that displays architectural blueprints.

The application must:

- Display the blueprints at different zoom levels without loss of detail
- Print the blueprints without loss of detail
- Work from only one source file per blueprint

You need to ensure that blueprints display according to the requirements.

Which HTML5 element should you use?

- A. CANVAS
- B. SAMP
- C. SVG
- D. AREA

**Answer: C****QUESTION 71**

You develop an HTML5 application that allows users to upload files from their local computers.

The user interface must remain responsive during the upload.

You need to implement the file upload functionality for the application.

Which two actions should you perform? (Each correct answer presents a complete solution. Choose two.)

- A. Use an HTML form with a file type INPUT element that targets a hidden IFRAME element.
- B. Use a file type INPUT element, and then use the Web Storage API to upload the file.
- C. Use a FormData object and upload the file by using XMLHttpRequest.
- D. Register the file protocol by using protocol handler registration API and then upload the file by using XMLHttpRequest.
- E. Use the FileSystem API to load the file, and then use the jQuery post method to upload the file to the server.

**Answer: BD****Explanation:**

B: Example (notice the web storage api upload.aspx):

```
<!DOCTYPE html>
<html>
```

```
<head>
<title>Upload Files using XMLHttpRequest - Minimal</title> </head>
<body>
<form id="form1" enctype="multipart/form-data" method="post" action="Upload.aspx"> <div
class="row">
<label for="fileToUpload">Select a File to Upload</label><br /> <input type="file"
name="fileToUpload" id="fileToUpload" onchange="fileSelected();"/> </div>
<div id="fileName"></div>
<div id="fileSize"></div>
<div id="fileType"></div>
<div class="row">
<input type="button" onclick="uploadFile()" value="Upload" /> </div>
<div id="progressNumber"></div>
</form>
</body>
</html>
```

D:

\* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.

\* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:

Handling of byte streams such as File, Blob and FormData objects for uploading and downloading Progress events during uploading and downloading Cross-origin requests

Allow making anonymous request - that is not send HTTP Referer The ability to set a Timeout for the Request

### QUESTION 72

You are developing a web application that can function when users are not connected to the Internet.

You need to check the Internet connectivity status of a user's browser.

Which method should you use?

- C A. 

```
function checkConnection()
{
    if (navigator.isOnline) {
        ...
    }
}
```
- C B 

```
function checkConnection()
{
    if (browser.isOnline) {
        ...
    } else {
        ...
    }
}
```
- C C. 

```
function checkConnection()
{
    if (browser.online) {
        ...
    } else {
        ...
    }
}
```
- C D. 

```
function checkConnection()
{
    if (navigator.online) {
        ...
    } else {
        ...
    }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

#### **QUESTION 73**

You are creating a page that contains detailed employee information for a company portal. The

page uses a jQuery library. The page contains a hidden button named btnEdit that is defined by the following code.

```
<button id="btnEdit" style="display: none;">Edit</button>
```

The button is not displayed by default.

The button must be displayed only if the user is logged on.

You need to add code to the document.ready() function to meet the requirements for the button.

Which line of code should you use?

- A. `$('#btnEdit').appear();`
- B. `$('#btnEdit').visible = true;`
- C. `$('#btnEdit').show();`
- D. `$('#btnEdit').Visible();`

**Answer:** A

#### QUESTION 74

Hotspot Question

You troubleshoot a webpage that includes the following code segment:

```
var customer = function () {
    var name = "Contoso";
    return {
        getName: function () {
            return name;
        },
        setName: function (newName) {
            name = newName;
        }
    };
}();
alert(customer.name);
```

You need to evaluate the value of the variable named customer.name.

For each statement in the table, select Yes if the code segment above causes the variable to evaluate as described. Select No if it does not. Make only one selection in each column.

<b>Yes</b>	<b>No</b>	<b>Description of customer.name variable</b>
<input type="radio"/>	<input type="radio"/>	An error will be thrown
<input type="radio"/>	<input type="radio"/>	Contoso
<input type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input type="radio"/>	null
<input type="radio"/>	<input type="radio"/>	false

**Answer:**

Yes	No	Description of customer.name variable
<input type="radio"/>	<input checked="" type="radio"/>	An error will be thrown
<input type="radio"/>	<input checked="" type="radio"/>	Contoso
<input checked="" type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input checked="" type="radio"/>	null
<input type="radio"/>	<input checked="" type="radio"/>	false

### QUESTION 75

#### Hotspot Question

You develop an HTML5 webpage that contains the following markup and code:

```
<form>
  <label for='city'>City:</label>
  <select id='city'>
    <option>Please Choose</option>
    <option>Moscow</option>
    <option>London</option>
    <option>Paris</option>
  </select>
  <input type='button' id='submit' value='Submit'
    onclick="madeSelection(document.getElementById('city'), 'Please Select A City')" />
</form>
```

You have the following requirements:

- Display a message if users select the first OPTION element, and then submit the form.
- Do not display an alert message if users select any other OPTION element, and then submit the form.

You need to implement the madeSelection() function.

How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
function madeSelection(element, message) {
  [ ] [ ]
  alert(message);
  [ ] [ ]
  [ ] [ ]
} else {
  [ ] [ ]
}
}
```

```
function madeSelection(element, message) {  
    if (element.id === 0) {  
        if (element.value == "-1") {  
            if (element.text === "Please Choose") {  
                if (element.value === "Please Choose") {  
  
                    alert(message);  
  
                    element.clear();  
                    element.focus();  
  
                    return true;  
                    return false;  
                } else {  
                    return true;  
                    return false;  
                }  
            }  
        }  
    }  
}
```

**Answer:**

```
function madeSelection(element, message) {  
    if (element.id === 0) {  
        if (element.value == "-1") {  
            if (element.text === "Please Choose") {  
                if (element.value === "Please Choose") {  
  
                    alert(message);  
  
                    element.clear();  
                    element.focus();  
  
                    return true;  
                    return false;  
                } else {  
                    return true;  
                    return false;  
                }  
            }  
        }  
    }  
}
```

**QUESTION 76**

Hotspot Question

You develop a webpage that consumes a web service. The web service provides currency exchange rates. Visitors enter the currency type on the webpage and press the Submit button.

The web service returns the current exchange rate.

You need to ensure that the webpage always displays the most current information.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<script type="text/javascript">
    var currencyRate;
    function getExchangeRate() {
        $().((
            ajax
            json
        )
        cache:,
        
            true
            false
        type: 'GET',
        url: "CurrencyConverter.asmx/GetExchangeRate",
        data: { 'currencyType': getCurrencyType() },
        dataType: 'json',
        success: function (result) {
            currencyRate = result;
        }
    });
}

function getCurrencyType() {
    return "USD";
}
</script>
```

**Answer:**

```
<script type="text/javascript">
    var currencyRate;
    function getExchangeRate(){

        $.ajax({
            cache: true,
            type: 'GET',
            url: "CurrencyConverter.asmx/GetExchangeRate",
            data: { 'currencyType': getCurrencyType() },
            dataType: 'json',
            success: function (result) {
                currencyRate = result;
            }
        });
    }

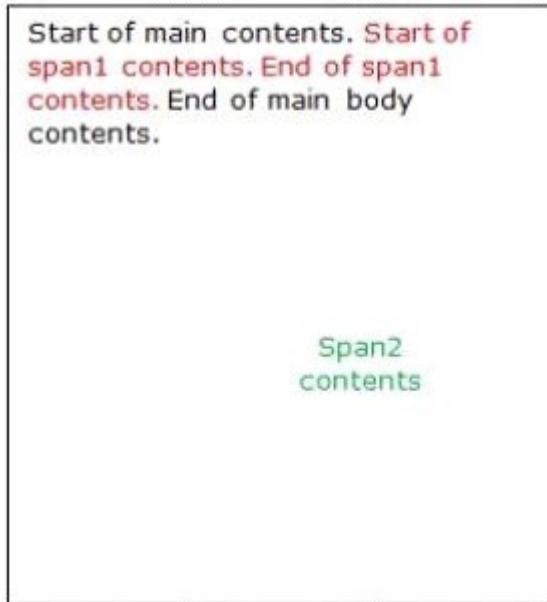
    function getCurrencyType() {
        return "USD";
    }
</script>
```

**QUESTION 77**

Hotspot Question

You develop a webpage.

The layout of the webpage must resemble the following image:



You need to ensure that the page renders properly.

How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<!DOCTYPE html>
<head>
    <style>

        #span1 {
            z-index: 1
            float: left
            position: relative
            position: absolute
        }

        #span2 {
            top: 200px;
            z-index: 2
            float: right
            position: relative
            position: absolute
        }

        left: -100px; height: 130px; width: 130px;
        color: green;
    </style>
</head>
<body>
    <p>Start of main contents.
        <span id=span1> Start of span1 contents.
        <span id=span2> Span2 contents.</span>
        End of span1 contents.</span>
        End of main contents.
    </p>
</body>
</html>
```

**Answer:**

```
<!DOCTYPE html>
<head>
<style>

#span1 { z-index: 1; color: red; }
float: left;
position: relative;
position: absolute

#span2 { z-index: 2; top: 200px; color: green; }
float: right;
position: relative;
position: absolute

left: -100px; height: 130px; width: 130px;
color: green; }

</style>
</head>
<body>
<p>Start of main contents.
<span id=span1> Start of span1 contents.
<span id=span2> Span2 contents.</span>
End of span1 contents.</span>
End of main contents.
</p>
</body>
</html>
```

**QUESTION 78**

Hotspot Question

A company has an XML file named products.xml on a web server. The file contains a list of the products that the company sells.

You need to display the contents of the products.xml file in a DIV element named Output.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<html>
  <head>
    <script lang="JavaScript">
      function DataHandler()
        var webReq = new XMLHttpRequest; {

          if (webReq.  ==  ) {
            

|            |
|------------|
| abort      |
| open       |
| status     |
| readyState |



|       |
|-------|
| false |
| true  |
| 2     |
| 3     |
| 4     |


          }

          if (webReq.status ==  ) {
            

|     |
|-----|
| 100 |
| 200 |
| 400 |
| 500 |


          }

          document.getElementById("Output").innerHTML =
            (webReq.responseText);}}
      var webReq = getXMLHttpRequest();
      if (webReq != null) {
        webReq.open
          ("GET", "http://localhost/products.xml", true);
        webReq.onreadystatechange = DataHandler;
        webReq.send();}

      </script>
    </head>
    <body>
      <div id="Output"> </div>
    </body>
  </html>
```

**Answer:**

```
<html>
  <head>
    <script lang="JavaScript">
      function DataHandler()
        var webReq = new XMLHttpRequest; {

          if (webReq.  == ) {
            
            abort
            open
            status
            readyState
          } 
            false
            true
            2
            3
            4
          }

          if (webReq.status == ) {
            
            100
            200
            400
            500
          }

          document.getElementById("Output").innerHTML =
            (webReq.responseText);}}
```

var webReq = getXMLHttpRequest();
if (webReq != null) {
 webReq.open
 ("GET", "http://localhost/products.xml", true);
 webReq.onreadystatechange = DataHandler;
 webReq.send();}

```
    </script>
  </head>
  <body>
    <div id="Output"> </div>
  </body>
</html>
```

**QUESTION 79**

You are developing an application that analyzes population data for major cities in the United States. The application retrieves population statistics for a city by using a web service. You need to request data from the web service by using jQuery. Which code segment should you use?

- A. 

```
$.ajax({
    url: "Services/WSAjax.asmx/GetPopulationCity?city='Boston'", 
    dataType: "text", type: "POST"
});
```
- B. 

```
$.ajax({
    url: "Services/WSAjax.asmx/GetPopulationCity",
    dataType: "text", type: "SEND", data: { city: "Boston" }
});
```
- C. 

```
$.ajax({
    url: "Services/WSAjax.asmx/GetPopulationCity?city='Boston'", 
    dataType: "text", type: "SEND"
});
```
- D. 

```
$.ajax({
    url: "Services/WSAjax.asmx/GetPopulationCity",
    dataType: "text", type: "POST", data: { city: "Boston" }
});
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**QUESTION 80**

You are developing a blog web page that is being optimized for accessibility. The page includes the following HTML.

```
<body>

<h1>Blog Post Title</h1>
<h2>Subtitle</h2>
<h3>Authors Byline</h3>

</body>
```

The heading tags represent a blog post title, a blog post subtitle, and the author's name. You need to ensure that the three headings are treated as a unit but retain their individual formatting. Which tags should you use to wrap the H1, H2, and H3 elements?

- A. <group> </group>
- B. <header> </header>
- C. <hgroup> </hgroup>
- D. <headings> </headings>

**Answer:** C

**QUESTION 81**

You develop a web application by using jQuery. You develop the following jQuery code:

(Line numbers are included for reference only.)

```
01 <script>
02   $(document).ready(function () {
03     $('#submit').click(function () {
04       $.ajax({
05
06       data: $('#myForm').serialize(),
07       success: function (result) {
08         $('#result').text(result.message);
09       }
10     });
11   });
12 });
13 </script>
```

The web application exposes a RESTful web API that has an endpoint of /product/create.

You need to create a new product by using AJAX.

Which code segment should you insert at line 05?

- A. type: "POST",
 dataType: "xml",
 contentType: "application/x-www-form-urlencoded; charset=UTF-8",
 url: "/product/create",
  - B. type: "GET",
 dataType: "xml",
 contentType: "application/x-www-form-urlencoded; charset=UTF-8",
 url: "/product/create",
  - C. type: "POST",
 dataType: "json",
 contentType: "application/json",
 url: "/product/create/post",
  - D. type: "POST",
 dataType: "json",
 url: "/product/create",
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

#### **QUESTION 82**

You develop a webpage that allows a user to download a 3PEG image and convert it to a PNG file. You need to implement the code to download the contents of the JPEG image with no additional decoding.

Which JavaScript function should you use?

- A. readAsBinaryString()
- B. readAsArrayBuffer()
- C. readAsDataURL()
- D. readAsText()

**Answer:** B

### **QUESTION 83**

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

- A. <article>
- B. <span>
- C. <tbody>
- D. <cd>

**Answer:** A

**Explanation:**

How the Changes in HTML 5 Will Affect SEO (Search Engine Optimization)?

As a SEO expert, you are most likely interested mainly in those changes in the HTML 5 specification, which will affect your work. Here is one of them:

A new <article> tag. The new <article> tag is probably the best addition from a SEO point of view. The <article> tag allows to mark separate entries in an online publication, such as a blog or a magazine. It is expected that when articles are marked with the <article> tag, this will make the HTML code cleaner because it will reduce the need to use <div> tags. Also, probably search engines will put more weight on the text inside the <article> tag as compared to the contents on the other parts of the page.

### **QUESTION 84**

Drag and Drop Question

You are developing a shared library to format information. The library contains a method named \_private.

The \_private method must never be called directly from outside of the shared library.

You need to implement an API for the shared library.

How should you complete the relevant code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

Answer Area

```
Formatter.prototype.parseValue =
function (input) {
    return _private(input);
}

prototype.parseValue = _private(input);

this._private = function (data) {
    return custom(data);
}

}

return {
    parseValue: function (input)
{ return _private(); }
}

function getFormatter() {

var _private = function (data) {
    return custom(data);
};

this.parseValue = function (input) {
    return _private(input);
};

$('#parseValue') = function (input) {
    return _private(input);
};
```

**Answer:**

## Answer Area

```
Formatter.prototype.parseValue =  
function (input) {  
    return _private(input);  
}
```

```
prototype.parseValue = _private(input);
```

```
this._private = function (data) {  
    return custom(data);  
}
```

```
}
```

```
return {  
    parseValue: function (input)  
    { return _private(); }  
}
```

```
function getFormatter() {
```

```
var _private = function (data) {  
    return custom(data);  
};
```

```
this.parseValue = function (input) {  
    return _private(input);  
};
```

```
$('#parseValue') = function (input) {  
    return _private(input);  
};
```

```
function getFormatter() {
```

```
Formatter.prototype.parseValue =  
function (input) {  
    return _private(input);  
}
```

```
this._private = function (data) {  
    return custom(data);  
}
```

```
}
```

**QUESTION 85**

You develop an HTML application that contains a table that displays a list of products. The table is defined with the following HTML markup:

```
<table>
  <thead>
    <tr>
      <th>Product</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Adjustable Race</td>
    </tr>
    <tr>
      <td>Blade</td>
    </tr>
    <tr>
      <td>Chainring</td>
    </tr>
    <tr>
      <td>Down Tube</td>
    </tr>
  </tbody>
</table>
```

You must style the table to look like the following image:

Product
Adjustable Race
Blade
Chainring
Down Tube

You need to implement the CSS selectors to select the rows that must have a blue background. Which CSS selector should you use?

- A. thead:only-child, tbody:after, table:before
- B. tr [line |0, 1, 3]
- C. tr:first-of-type, tr:last-of-type
- D. tr:first-line, tr:last-child

**Answer:** B

**Explanation:**

Header (line 0), first line and third line.

#### **QUESTION 86**

You develop a webpage by using HTML5. You create the following markup:

```
<input type="url" name="website" required="required" />
```

You need to ensure that the value that the user enters contains a secure URL.

What should you do?

- A. Add the following attribute to the input tag: value="https://v"
- B. Add the following attribute to the input tag: pattern="https://.+"

- C. Add the following attribute to the input tag: value="ssl"
- D. Add the following attribute to the input tag: itemtype="https"

**Answer:** B

**Explanation:**

Note:

- \* The pattern attribute is supported in Internet Explorer 10, Firefox, Opera, and Chrome.
- \* The pattern attribute specifies a regular expression that the <input> element's value is checked against.
- \* The pattern attribute works with the following input types: text, search, url, tel, email, and password

### QUESTION 87

You develop a webpage by using HTML5. You create the following markup and code: (Line numbers are included for reference only.)

```
01 <head>
02   <script>
03     function removeInvalid(input) {
04
05   }
06 </script>
07 </head>
08 <body>
09   Given Name: <input type="text" id="GivenName" onblur="removeInvalid(this);"/>
10   Surname: <input type="text" id="Surname" onblur="removeInvalid(this);"/>
11 </body>
```

You need to ensure that the values that users enter are only numbers, letters, and underscores, regardless of the order.

Which code segment should you insert at line 04?

- A. 

```
if (!/^[_A-Za-z0-9_]+$/ .test(input.value))
  input.value = "Invalid";
```
  - B. 

```
if (!/^[_A-Za-z0-9_]+$/ .test(input.value))
  input.value = "Invalid";
```
  - C. 

```
var regEx = new RegExp("^\w+");
  if (!input.value.match(regEx))
    input.value = "Invalid";
```
  - D. 

```
var regEx = "[\w\d]";
  if (!input.value.match(regEx))
    input.value = "Invalid";
```
- A. Option A
  - B. Option B
  - C. Option C

D. Option D

**Answer:** A

**Explanation:**

Example:

Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form. You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters. - See more at: <http://www.w3resource.com/javascript/form/all-letters-field.php#sthash.5Db50Bdm.dpuf>

Javascript function to check for all letters in a field view plainprint?

```
function allLetter(inputtxt)
{
var letters = /^[A-Za-z]+$/;
if(inputtxt.value.match(letters))
{
return true;
}
else
{
alert("message");
return false;
}
}
```

To get a string contains only letters (both uppercase or lowercase) we use a regular expression ([/^\[A-Za-z\]+\\$/](#)) which allows only letters. Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

- See more at: <http://www.w3resource.com/javascript/form/all-letters-field.php#sthash.5Db50Bdm.dpuf>

### QUESTION 88

Hotspot Question

You develop an interactive scalable vector graphics (SVG) application. You write the following HTML markup that makes a rectangle rotate:

```
<svg width="200px" height="200px">
  <g transform="translate(400, 400)" id="myImage">
    <rect id="mySquare" x="-10" y="-10" width="20" height="20" color="blue" />
  </g>
</svg>
<input id="speed" type="text" value="10" />
<button id="zoom" onclick="startAnimation();>Start</button>
```

You need to control the speed of the rotating rectangle.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {
        squareShape= [
            document.myImage;
            document.mySquare;
            document.getElementById("myImage");
            document.getElementById("mySquare");
        ];

        squareShape.currentTheta = 0;

        myTimer= [
            speed.value;
            myTimer.interval (speed.value);
            setTimer/animateImage, speed.value);
            new timer/animateImage, speed.value);
        ];
    }

    function animateImage () {
        [
            setInterval/animateImage, speed.value);
            squareShape.setAttribute("rotate", "angle(")
            squareShape.setAttribute("transform", "angle(")
            squareShape.setAttribute("transform", "rotate(")
            squareShape.setAttribute("mySquare", "transform(")

            + squareShape.currentTheta + ") ");
            squareShape.currentTheta += 0.1;
        ]
    }
</script>
```

**Answer:**

```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {
        squareShape= [
            document.myImage;
            document.mySquare;
            document.getElementById("myImage");
            document.getElementById("mySquare");
        ];
        squareShape.currentTheta = 0;

        myTimer= [
            speed.value;
            myTimer.interval (speed.value);
            setTimer/animateImage, speed.value);
            new timer (animateImage, speed.value);
        ];
        animateImage ();
    }

    function animateImage () {
        [
            setInterval/animateImage, speed.value);
            squareShape.setAttribute("rotate", "angle(")
            squareShape.setAttribute("transform", "angle(")
            squareShape.setAttribute("transform", "rotate(")
            squareShape.setAttribute("mySquare", "transform(")

            + squareShape.currentTheta + ") ");
            squareShape.currentTheta += 0.1;
        ]
    }
</script>
```

**QUESTION 89**

On which panel can you see a hierarchically structured view of the DOM?

- A. Live DOM
- B. Projects
- C. Assets

- D. Device

**Answer:** A

#### **QUESTION 90**

Which panel can you use to access a list of the HTML elements, controls, and media that can be added to an HTML page that is open in the artboard?

- A. Projects
- B. Assets
- C. Device
- D. Live DOM

**Answer:** B

#### **QUESTION 91**

You want to create an expando attribute on several `<h3>` tags that display vehicles for sale. The expando attribute will store the VIN (vehicle identification number) of the vehicle for sale. Which of the following is the most appropriate example of creating the expando attribute?

- A. `<h3 vin='current VIN here'>1965 VW Beetle</h3>`
- B. `<h3 id='current VIN here'>1965 VW Beetle</h3>`
- C. `<h3 data-vin='current VIN here'>1965 VW Beetle</h3>`
- D. `<h3 datavin='current VIN here'>1965 VW Beetle</h3>`

**Answer:** C

#### **QUESTION 92**

Which technology is HTML5 preceded by and derived from?

- A. HTML 4.01
- B. SGML
- C. XHTML 1.0
- D. XML

**Answer:** A

#### **QUESTION 93**

You are creating a web page that contains a canvas with text.

The page contains the following JavaScript code. (Line numbers are included for reference only.)

```
01 var canvas = document.getElementById('myCanvas');
02 var context = canvas.getContext('2d');
03
```

The text on the canvas must rotate 90 degrees when a user clicks a button on the page.

You need to ensure that the text rotates when the user clicks the button.

Which line of code should you add at line 03?

- A. `context.transform(90);`
- B. `context.content.getRotation(90);`
- C. `context.rotate(90);`
- D. `context.content.rotate (90);`

**Answer:** C

**QUESTION 94**

You are creating a new Windows 8 application, and you want to set up TDD for your JavaScript code. Which testing framework will you use?

- A. QUnit
- B. QUnit-Metro
- C. Microsoft Test
- D. NUnit

**Answer:** B

**QUESTION 95**

What are the steps for TDD?

- A. Write the passing test, write the code, run the test again to validate that it still passes.
- B. Write the failing test, write the code, run the test again to validate that it passes.
- C. Write the code, write the test to validate that it passes, run the test again to validate that it still passes.
- D. Write the passing test, write the code, break the code, run the test again to validate that it fails.

**Answer:** B

**QUESTION 96**

Where should your JavaScript code be placed?

- A. In the <head> element of your HTML document.
- B. Just before the </body> tag.
- C. You should always place your JavaScript code in separate files, external to your HTML document.
- D. Inside the <body> element, at the top.

**Answer:** C

**QUESTION 97**

You have two arrays of strings, customers and employees, and you want to combine them to create a contacts array. Which method would be most suitable for this task?

- A. concat
- B. join
- C. push
- D. splice

**Answer:** A

**QUESTION 98**

You develop an HTML5 application. You give users a numeric access code that can be used only one time.

Users must enter the numeric access code in the login form of the application. The numeric characters must be hidden by a masking character.

You need to implement the form element for users to enter the code.

Which HTML element should you use?

- A. <input type="password" required autocomplete="off">
- B. <input type="input" autocomplete="off" required />
- C. <input type="password" stystem" visibility:hidden;" required />
- D. <input type="button" value="password" required />

**Answer:** A

**QUESTION 99**

You are developing an HTML5 web application that displays stock information.

The application loads information from a web service by using AJAX.

The following code defines a Stock object and loads stock data.

```
function Stock(symbol) {  
    this.symbol = symbol;  
    this.low = 0;  
    this.high = 0;  
}  
  
Stock.prototype.parseStock = function (data) {  
    this.low = data.low;  
    this.high = data.high;  
}  
  
Stock.prototype.loadStock = function () {  
}
```

You need to implement the loadStock function.

Which code segment should you use?

- A. 

```
var stock = this;
$.get('data.xml', function (data) {
    stock.parseStock(data);
});
```
  - B. 

```
$.get('data.xml', function (data, innerScope) {
    innerScope.parseStock(data);
});
```
  - C. 

```
$.get('data.xml', function (data) {
    this.parseStock(data);
});
```
  - D. 

```
$.get('data.xml', function (data) {
    (function (scope) {
        scope.parseStock(data);
    })(data);
});
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

**QUESTION 100**

Hotspot Question

You review a webpage that contains the following markup:

```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      .container {
        display: -ms-grid;
        -ms-grid-columns: 1fr 1fr 1fr;
        -ms-grid-rows: 1fr 1fr 1fr;
      }
      .blueBox {
        -ms-grid-row: 2;
        -ms-grid-column: 2;
        -ms-wrap-flow: auto;
        float:none;
        background-color: blue;
      }
      .text {
        -ms-grid-row: 1;
        -ms-grid-column: 1;
        -ms-grid-column-span: 3;
        -ms-grid-row-span: 3;
      }
    </style>
  </head>
  <body>
    <div class="body">
      <div name="container" class="container">
        <div name="blueBox" class="blueBox"></div>
        <div name="content" class="text"></div>
      </div>
    </div>
  </body>
</html>
```

How does the page render? For each statement in the table, select Yes if the behavior is described. Select No if it is not. Make only one selection in each column.

Yes	No	
<input type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input type="radio"/>	<input type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

**Answer:**

Yes	No	
<input type="radio"/>	<input checked="" type="checkbox"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input checked="" type="checkbox"/>	<input type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input checked="" type="checkbox"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

### QUESTION 101

Drag and Drop Question

You create an HTML5 application that includes JavaScript. The application performs several AJAX requests. One AJAX request retrieves order information from a web service and then sends the information back to a webpage within the application.

You must create a custom event. You have the following requirements:

- The webpage must contain an HTML element named `ordersListing` that will receive the custom event notification.
- The event name must be `ordersReceived`.
- The event must pass a custom value named `orderCount`.
- The event must run a JavaScript method named `showOrdersReceivedCount` after the `orders Listing` HTML element receives the event.
- Do not allow other DOM elements to receive the event.
- Allow the event to be cancelled.
- Send the event into the event system.

You need to implement the custom event to notify specific DOM elements of the AJAX response. Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

## Answer Area

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: false,
  cancelable: true
}));
```

```
var ordersReceivedEvent = new CustomEvent
("ordersReceived", {
  bubbles: true,
  cancelable: true
});
```

```
ordersListing.addEventListener
("orders", showOrders);
```

```
ordersReceived.dispatchEvent
(ordersReceivedEvent);
```

```
var ordersReceived = document.getElementById
("ordersReceived");
```

```
var ordersListing = document.getElementById
("ordersListing");
```

```
ordersListing.addEventListener
("ordersReceived", showOrdersReceivedCount);
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: true,
  cancelable: false
}));
```

**Answer:**

## Answer Area

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: false,
  cancelable: true
}));
```

```
var ordersReceivedEvent = new CustomEvent
("ordersReceived", {
  bubbles: true,
  cancelable: true
});
```

```
ordersListing.addEventListener
("orders", showOrders);
```

```
ordersReceived.dispatchEvent
(ordersReceivedEvent);
```

```
var ordersReceived = document.getElementById
("ordersReceived");
```

```
var ordersListing = document.getElementById
("ordersListing");
```

```
ordersListing.addEventListener
("ordersReceived", showOrdersReceivedCount);
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: true,
  cancelable: false
}));
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: false,
  cancelable: true
}));
```

```
ordersListing.addEventListener
("ordersReceived", showOrdersReceivedCount);
```

```
ordersReceived.dispatchEvent
(ordersReceivedEvent);
```

**QUESTION 102**

## Drag and Drop Question

You are developing an application by using JavaScript.

You must write a function that returns the sum of the variables named v1, v2, v3, v4.

You need to complete the sum function.

How should you complete the relevant code? (To answer, drag the appropriate code segment or segments to the correct location or locations in the answer area. Use only code segments that apply.)

v3 + v4;  
o.v3 + o.v4;  
this.v3 + this.v4;  
this.o.v3 + this.o.v4;  
add (o, 15, 3);  
add (15, 3) + o;  
add.call(o, 15, 3);  
add.apply (o, 15, 3);

## Answer Area

```
<script>

    function add(v1, v2) {
        return v1 + v2 + [REDACTED]
    }

    function addValues() {
        var o = { v3: 10, v4: 13 };

        var res = [REDACTED]

        return res;
    }

</script>
```

**Answer:**

v3 + v4;  
o.v3 + o.v4;  
this.v3 + this.v4;  
this.o.v3 + this.o.v4;  
add (o, 15, 3);  
add (15, 3) + o;  
add.call(o, 15, 3);  
add.apply (o, 15, 3);

## Answer Area

```
<script>

    function add(v1, v2) {
        return v1 + v2 + this.v3 + this.v4; [REDACTED]
    }

    function addValues() {
        var o = { v3: 10, v4: 13 };

        var res = add.call(o, 15, 3); [REDACTED]

        return res;
    }

</script>
```

**QUESTION 103**

You are developing a web page that includes the following HTML.

```
<span id = "myTextSpan" class = "redText"> Hello There! </span>
```

The font color of text inside the span must be red.

You need to develop the web page to meet the requirement.

Which two CSS segments will achieve the goal? (Each correct answer presents a complete solution. Choose two.)

- A. 

```
.redText
{
    color: red;
}
```
  - B. 

```
.myTextSpan
{
    color: red;
}
```
  - C. 

```
span#myTextSpan
{
    color: red;
}
```
  - D. 

```
#redText
{
    color: red;
}
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** AC

#### **QUESTION 104**

You are troubleshooting an application.

Users report that the UI is slow to respond.

You need to improve UI responsiveness by moving application tasks to web workers.

Which two tasks can you move to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. A function that loops through the Document Object Model to update the style of page elements
- B. A long-running calculation that requires looping through an array
- C. A function that performs graphic-intensive animation
- D. A function that stores large amounts of data to local storage

**Answer:** BC

**Explanation:**

\* Despite the improvements in JavaScript engines, it is not uncommon for users to encounter frozen user interfaces as the browser works through resource intensive tasks. This leads to a horrible user experience. The purpose of Web Workers is to give developers a way of instructing the browser to process large tasks in the background; therefore preventing the UI from freezing up.

\* The Web Workers specification defines an API for spawning background scripts in your web

application. Web Workers allow you to do things like fire up long-running scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions

**QUESTION 105**

You develop an interactive scalable vector graphic (SVG) application.

You write the following code (Line numbers are included for reference only.):

```
01 <script>
02
03 </script>
04 <svg height="150" width="150" id="myGraphic">
05   <circle cx="25" r="20" cy="20" fill="orange" id="myCircle"/>
06 </svg>
07 <button id="zoom" onclick="zoomIn();>Zoom In</button>
```

You need to increase the size of the circle by 50 percent.

Which code segment should you insert at line 02?

- A. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.createSVGTransform(1.5);
}
```
- B. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.setAttribute("currentScale", 1.5);
}
```
- C. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.setAttribute("currentScale", 1.5);
}
```
- D. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.r = myCircle.r * 1.5;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

**QUESTION 106**

You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

You need to change the background color for all of the elements whose name attribute ends with the word name.

Which code segment should you add to the webpage?

- A. `$( '#name' ).css ( { 'background-color' : '#E0ECF8' } );`
- B. `$( 'input [name |= "name"; ]' ).css ( { 'background-color' : '#E0ECF8' } );`
- C. `$( 'input[name$= "name" ]' ).css ( { 'background-color' : '#E0ECF8' } );`
- D. `$( '*name' ) .css ( { 'background-color' : '#E0ECF8' } );`

**Answer: C**

#### **QUESTION 107**

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com).

The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com).

You need to choose an approach for loading the data.

What should you do?

- A. Design a REST URI scheme with multiple domains.
- B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
- C. Load the data by using WebSockets.
- D. Use the jQuery getJSON method.

**Answer: B**

**Explanation:**

\* You must use Cross Origin Resource Sharing

It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:

```
self.response.headers.add_header('Access-Control-Allow-Origin',           '*');
self.response.headers.add_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS');
self.response.headers.add_header('Access-Control-Allow-Headers',          'X-Requested-With');
self.response.headers.add_header('Access-Control-Max-Age', '86400');
```

\* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from.[1] Such "cross-domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request.[2] It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

#### **QUESTION 108**

You are building a web page for a newspaper publisher.

You have the following requirements:

- The web page should split the content into columns that are at least 100 pixels wide.
- The number of columns displayed must be set by the browser.

You need to implement the correct CSS properties.  
Which line of code should you use?

- A. <div id="outer" style="width: 100px; column-fill: balance;">...</div>
- B. <div id="outer" style="width: 100px; column-gap: 10px;">...</div>
- C. <div id="outer" style="column-width: 100px; ">...</div>
- D. <div id="outer" style="width: 100px; columns: 100px 3">...</div>

**Answer:** C

**QUESTION 109**

You develop a webpage with a standard input control by using HTML5.  
The input control must display the text Enter your given name, as shown below:

Enter your given name

When a user selects the input control, the text must disappear.  
You need to create the input control.  
Which input control should you use?

- A. <input name="GivenName" value=" Enter your given name" />
- B. <input name = "GivenName" default=" Enter your given name" />
- C. <input name="GivenName" text=" Enter your given name" />
- D. <input name="GivenName" placeholder=" Enter your given name" />

**Answer:** D

**QUESTION 110**

You develop an HTML5 webpage. You have the following HTML markup:

```
<section id="news">
  <h1>World News</h1>
  <article id="news1">...</article>
  <article id="news2">...</article>
  <article id="news3">...</article>
</section>
<section id="sports">
  <h1>Sports</h1>
  <article id="sports1">...</article>
  <article id="sports2">...</article>
  <article id="sports3">...</article>
</section>
```

You need to add a background color to the first article in each section.  
Which code segment should you add to the webpage?

- A. \$( "section article:first-child").css("background-color", "#f2f2f2");
- B. \$( "section:first-child").css ( "background-color", "#f2f2f2");
- C. \$( "article:first-of-type") .css("background-color", "#f2f2f2");
- D. \$( "section:first-of-type").css("background-color", "#f2f2f2");

**Answer:** C

**QUESTION 111**

You are creating a custom object as described by the following code.

```
function square(side) {  
    this.side = side;  
    this.area = calcArea;  
}
```

You need to implement the calcArea method.

Which code should you use?

- A. 

```
function calcArea () {  
    return me.side * me.side;  
}
```
- B. 

```
function calcArea (obj) {  
    return obj.side * obj.side;  
}
```
- C. 

```
function calcArea () {  
    return side * side;  
}
```
- D. 

```
function calcArea () {  
    return this.side * this.side;  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**QUESTION 112**

Drag and Drop Question

You are developing a web page that includes the following HTML.

```
<input name="ITSupport" type="checkbox" value="IT" id="choc"  
      onclick="enable();"/><label for="IT">IT Support</label>  
<input type="email" placeholder="IT@Contoso.com" id="eMail"  
      name="eMail" disabled /><label for="eMail" >Your eMail </label>
```

You need to ensure that the email element is enabled only if the user selects the IT Support check box.

Which CSS selectors should you use? (To answer, drag the appropriate selector to the correct location. Each selector may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

enabled

disabled

hidden

true

false

set

```

input: [ ] {
    background-color: #e0e0e0;
}

<script type="text/javascript">
function enable(e) {
    if (document.getElementById) {
        if (document.getElementById('IT').checked) {
            document.getElementById('eMail').[ ] = [ ];
        } else {
            document.getElementById('eMail').[ ] = [ ];
        }
    }
}
</script>

```

**Answer:**

enabled

disabled

hidden

true

false

set

disabled

```

input: [ ] {
    background-color: #e0e0e0;
}

<script type="text/javascript">
function enable(e) {
    if (document.getElementById) {
        if (document.getElementById('IT').checked) {
            document.getElementById('eMail').[ ] = [ false ];
        } else {
            document.getElementById('eMail').[ ] = [ true ];
        }
    }
}
</script>

```

**QUESTION 113**

You are developing an HTML5 web form to collect feedback information from site visitors.

The web form must display an INPUT element that meets the following requirements:

- Allow numeric values between 1 and 10.
- Default to the value of 5.
- Display as a slider control on the page.

You need to add the INPUT element to the form.

Which HTML element should you add?

- A. Rating (Between 1 and 10): <input type="number" name="rating" min ="1" max="10">
- B. Rating (Between 1 and 10): <input type="number" name="rating" min="1" max="10" default="5">
- C. Rating (Between 1 and 10): <input type="range" name="rating" min="0" max="10" default="5">
- D. Rating (Between 1 and 10): <input type="range" name="rating" min="10" max="10" value="5">

**Answer:** D

**QUESTION 114**

You develop an HTML5 application. The application uses an image that is returned from an HTTP POST request.

You develop the following code: (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 xhr.open('POST', '/Images/heroAccent.png', true);
03 var img = document.createElement('img');
04
05 xhr.send();
```

You need to display the loaded image in the application.

Which code segment should you insert at line 04?

- C A. 

```
 xhr.responseType = 'blob';
xhr.onload = function (e) {
    if (this.status == 200) {
        img.src = window.URL.createObjectURL(this.responseText);
        document.body.appendChild(img);
    }
};
```
- C B. 

```
 xhr.responseType = 'blob';
xhr.onload = function(e) {
    if (this.status == 200) {
        img.src = window.URL.createObjectURL(this.response);
        document.body.appendChild(img);
    }
};
```
- C C. 

```
 xhr.responseType = 'document';
xhr.onload = function (e) {
    if (this.status == 200) {
        img.src = window.URL.createObjectURL(this.responseText);
        document.body.appendChild(img);
    }
};
```
- C D. 

```
 xhr.responseType = 'document';
xhr.onload = function (e) {
    if (this.status == 200) {
        img.src = window.URL.createObjectURL(this.response);
        document.body.appendChild(img);
    }
};
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

**QUESTION 115**

You develop an HTML5 webpage that contains the following HTML markup:

```
<input id="loanTermTextBox" type="text" />
```

Users must enter a valid integer value into the text box.

You need to validate the data type that is received from the input element.

Which two code segments should you include on the webpage? (Each correct answer presents a complete solution. Choose two.)

- A. 

```
function validateForm() {
    var loanTermInput = document.getElementById("loanTermTextBox");
    var loanTerm = parseInt(loanTermInput.value, 10);
    if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- B. 

```
var validateForm = function () {
    var loanTermInput = document.getElementById("loanTermTextBox");
    var loanTerm = parseInt(loanTermInput.value, 10);
    if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- C. 

```
var validateForm = function () {
    var loanTermInput = document.getElementsByName("loanTermTextBox");
    var loanTerm = parseFloat(loanTermInput.value);
    if (!isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```
- D. 

```
var validateForm = function () {
    var loanTermInput = document.getElementById("loanTermTextBox");
    var loanTerm = parseInt(loanTermTextBox.text);
    if (isNaN(loanTermInput)) {
        alert("Loan Term must be an integer");
        return false;
    }
};
```
- E. 

```
var validateForm = function () {
    var loanTermInput = document.getElementsByName("loanTermTextBox");
    var loanTerm = JSON.parse(loanTermInput);
    if (!isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value) {
        alert("Loan Term must be an integer");
        return false;
    }
    return true;
};
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer:** AB

### QUESTION 116

You develop an HTML5 application for a company. Employees must enter a personal identification number (PIN) in an INPUT element named SecurityCode to access their employee records.

The SecurityCode element must meet the following requirements:

- Allow up to 6 digits.
- Do not display numbers as they are entered.
- Display the text Enter PIN Code before the user enters any data.

You need to implement the SecurityCode element.

Which HTML markup should you add to the application?

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer:** D

**Explanation:**

\* The isNaN() function determines whether a value is an illegal number (Not-a-Number).

This function returns true if the value is NaN, and false if not.

\* JavaScript Form Validation

JavaScript can be used to validate data in HTML forms before sending off the content to a server.

Form data that typically are checked by a JavaScript could be:

has the user left required fields empty?

has the user entered a valid e-mail address?

has the user entered a valid date?

has the user entered text in a numeric field?

\* document.getElementById

Returns a reference to the element by its ID.

Syntax

element = document.getElementById(id);

where

element is a reference to an Element object, or null if an element with the specified ID is not in the document.

id is a case-sensitive string representing the unique ID of the element being sought.

\* The getElementsByName() method accesses all elements with the specified name. Gets a collection of objects based on the value of the NAME or ID attribute.

Syntax

document.getElementsByName(name)

### QUESTION 117

Drag and Drop Question

You develop an HTML5 webpage. You have the following HTML markup:

```
<div id="MapContents"></div>

```

You need to update the content of the DIV element when the mouse hovers over an image and when the mouse coordinates change.

How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Use only code segments that apply.)

## Answer Area

innerHTML  
mousemove  
mouseout  
mouseover  
nodeValue  
outerText

```
var contents = document.getElementById("MapContents");
var image = document.getElementById("UsMap");

image.addEventListener('click', function (e) {
    contents.innerHTML = "x: " + e.x + "<br/>y: " + e.y + "<br/>";
});
```

## Answer:

## Answer Area

innerHTML  
mousemove  
mouseout  
mouseover  
nodeValue  
outerText

```
var contents = document.getElementById("MapContents");
var image = document.getElementById("UsMap");

image.addEventListener('mousemove', function (e) {
    contents.innerHTML = "x: " + e.x + "<br/>y: " + e.y + "<br/>";
});
```

**QUESTION 118**

## Hotspot Question

You are creating a custom CSS3 style.

You have the following requirements to complete the style:

- Box1 has a red outline.
- Box1 contains box2, and box2 must remain inside box1. Box2 must have a green to black gradient.
- Box2 must be surrounded by white space.

The style resembles the following diagram:



You need to add the CSS3 code to the styles.

How should you complete the relevant code? (To answer, select the appropriate code segment in each drop-down list in the answer area.)

```
<style>
    #box1
    {
        margin: 5em; border: 1px solid #f00;
        margin: 5em; border-color: red;
        margin: 10px 10px 10px 10px; color: red;
        margin: 10px 10px 10px 10px; border-style: solid;
    }

    #box2
    {
        width: 6em;
        height: 4em;
        position: absolute;

        background-image: linear-gradient(to bottom, green, black);
        background-image: linear-gradient(to top, green, black);
        background-image: radial-gradient(to bottom, green, black);
        background-image: radial-gradient(to top, green, black);
    }

    margin: 0px 0px 0px 0px;
    margin: 10px 10px 10px 10px;
    padding: 0px 0px 0px 0px;
    padding: 10px 10px 10px 10px;
}

</style>
```

**Answer:**

```
<style>
    #box1
    {
        margin: 5em; border: 1px solid #f00;
        margin: 5em; border-color: red;
        margin: 10px 10px 10px 10px; color: red;
        margin: 10px 10px 10px 10px; border-style: solid;
    }

    #box2
    {
        width: 6em;
        height: 4em;
        position: absolute;

        background-image: linear-gradient(to bottom, green, black);
        background-image: linear-gradient(to top, green, black);
        background-image: radial-gradient(to bottom, green, black);
        background-image: radial-gradient(to top, green, black);
    }

    margin: 0px 0px 0px 0px;
    margin: 10px 10px 10px 10px;
    padding: 0px 0px 0px 0px;
    padding: 10px 10px 10px 10px;
}

</style>
```

**QUESTION 119**

You develop an application to host user-generated HTML and JavaScript content.

A common error handler in your application must process all unhandled errors.

You need to implement global error handling for the application.

Which code segment should you use?

- A. `window.onerror = function () {  
 ...  
}`
  - B. `Error.constructor = function () {  
 ...  
}`
  - C. `Error = function () {  
 ...  
}`
  - D. `document.onerror = function () {  
 ...  
}`
- A.  
B.  
C.  
D.

**Answer:** A

#### QUESTION 120

You are creating a custom function. You pass an object named testObj to the function as a parameter. You do not use inheritance through the functions.

The function must establish whether testObj inherits from another object named parentObj.

You need to ensure that the function performs as required.

Which method or operator should you add to the function?

- A. `parentObj.instanceof(testObj)`
- B. `testObj.isPrototypeOf(parentObj)`
- C. `testObj.instanceof(parentObj)`
- D. `parentObj.isPrototypeOf(testObj)`

**Answer:** B

#### QUESTION 121

You develop an HTML5 webpage. You have the following HTML markup:

```
Total Products: <span id="products"></span><br />
Total Boxes: <span id="boxes"></span><br />
<input type="button" id="addOneItem" value="Add one item to the order" />
<input type="button" id="addBoxOfItems" value="Add a box to the order" />
```

You need to call the click event for the addOneItem button a determined number of times when the user clicks the addBoxOfItems button.

Which code segment should you add to the webpage?

- C A. 

```
$('#addBoxOfItems').on(function (event) {
    for (var i = 0; i < itemsPerBox; i++) {
        $('#addOneItem').trigger('click');
    }
});
```
- C B. 

```
$('#addBoxOfItems').click(function (event) {
    for (var i = 0; i < itemsPerBox; i++) {
        $('#addOneItem').click('click');
    }
});
```
- C C. 

```
$('#addBoxOfItems').on(function (event) {
    for (var i = 0; i < itemsPerBox; i++) {
        $('#addOneItem').click();
    }
});
```
- C D. 

```
$('#addBoxOfItems').click(function (event) {
    for (var i = 0; i < itemsPerBox; i++) {
        $('#addOneItem').trigger('click');
    }
});
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

### QUESTION 122

Hotspot Question

You are validating user input by using built-in JavaScript functions.

The application must:

- Store the value that is entered in a variable named inputValue
- Use the built-in isNaN(inputValue) function to evaluate the data type

You need to validate the return value of the isNaN(inputValue) function.

Which values will be returned? (To answer, configure the appropriate options in the dialog box in the answer area.)

**If user inputs:**

-13    `isNaN(userInput)`    returns

True
False

24.3    `isNaN(userInput)`    returns

True
False

3\*8    `isNaN(userInput)`    returns

True
False

'5'    `isNaN(userInput)`    returns

True
False

**Answer:**

**If user inputs:**

-13    **isNaN(userInput)**    returns

True
False

24.3    **isNaN(userInput)**    returns

True
False

3\*8    **isNaN(userInput)**    returns

True
False

'5'    **isNaN(userInput)**    returns

True
False

**QUESTION 123**

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com). The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com).

You need to choose an approach for loading the data.

What should you do?

- A. Add a crossdomain.xml file to the second server.
- B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
- C. Load the data in a JavaScript timeout callback.
- D. Reference the remote data as an XML resource.

**Answer:** B

**QUESTION 124**

You are creating a blog site by using HTML5 and JavaScript. An inline frame enables users to post comments. It is possible for users to inject malicious scripts into their comments.

You need to minimize the ability for malicious scripts to execute on the site.

Which line of code should you use?

- A. <iframe sandbox src="frame1.htmlInX/iframe>
- B. <iframe seamless="allowscripts" src="frame1.html"></iframe>
- C. <iframe seamless src="frame1.html"></iframe>
- D. <iframe sandbox="allowscripts" src="frame1.html" x/iframe>

**Answer:** A

**QUESTION 125**

You develop an HTML5 webpage. You have the following HTML markup:

```
<input type="text" id="username" />
```

You need to prevent users from entering specific characters into the username field.

What should you do?

- A. Using the keyup event, add an anonymous function that returns true when a specific character keycode value is determined.
- B. Using the change event, add an anonymous function that returns true when a specific character keycode value is determined.
- C. Using the keydown event, add an anonymous function that returns false when a specific character keycode value is determined.
- D. Using the change event, add an anonymous function that returns false when a specific character keycode value is determined.

**Answer: B**

**QUESTION 126**

You troubleshoot a webpage that contains the following HTML markup: (Line numbers are included for reference only.)

```
01 <div onclick="someEvent()">
02   <input type="radio" name="sizeRadio" id="sizeRadioSml" value="1" />
03     <label for="sizeRadioSml">Small</label>
04   <input type="radio" name="sizeRadio" id="sizeRadioMed" value="2" />
05     <label for="sizeRadioMed">Medium</label>
06   <input type="radio" name="sizeRadio" id="sizeRadioLrg" value="3" />
07     <label for="sizeRadioLrg">Large</label>
08 </div>
```

The webpage also contains the following JavaScript function named someEvent() that is declared in the HEAD section of the HTML:

```
Function someEvent() {
  Alert('someEvent fired!');
}
```

The JavaScript function named someEvent() must run only when the user clicks the DIV element, not the INPUT elements.

You need to modify the webpage to invoke the JavaScript function named someEvent().

What should you do? (Each correct answer presents a complete solution. Choose two.)

- A. Modify all INPUT elements by using the following HTML attribute:

```
onclick="stopPropagation(event)"
```

Declare the JavaScript function named **stopPropagation()** in the HEAD section of the HTML as follows:

```
function stopPropagation(event) {  
    event = event || window.event;  
    if (event.stopPropagation) {  
        event.stopPropagation();  
    } else {  
        event.cancelBubble = true;  
    }  
}
```

- B. Place all INPUT elements within a SPAN element.

- C. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div onclick="someEvent(this, event)">
```

Modify the JavaScript function named **someEvent()** as follows:

```
function someEvent( el, event ) {  
    var target = event.srcElement || event.target;  
    if( el === target ) {  
        alert('someEvent fired!');  
    }  
}
```

- D. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div>
```

Modify all INPUT elements by using the following HTML attribute:

```
onclick="someEvent()"
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: AB**

### QUESTION 127

You develop a webpage by using HTML5.

The user interface of the webpage must show a gray-lined box that contains the label Enter your information:. Inside the box are two labels and two input boxes. The first input box must be labeled Name:. The second input box must be labeled Email:. Below the box is a Submit button.

The user interface must look like the following:

Enter your information:	
Name:	<input type="text"/>
Email:	<input type="text"/>
<input type="button" value="Submit"/>	

You need to create the user interface.

Which markup should you use?

- C A. 

```
<table border="1">
  <tr>
    <td>Enter your information:<br />
      Name: <input type="text" /><br />
      Email: <input type="email" /><br />
    </td>
  </tr>
</table>
<button value="submit">Submit</button>
```
- C B. 

```
<fieldset>
  <legend>Enter your information:</legend>
  Name: <input type="text" /><br />
  Email: <input type="email" /><br />
</fieldset>
<button value="submit">Submit</button>
```
- C C. 

```
<details>
  <label>Enter your information:</label>
  Name: <input type="text" /><br />
  Email: <input type="email" /><br />
</details>
<button value="submit">Submit</button>
```
- C D. 

```
<section>
  <label>Enter your information:</label>
  Name: <input type="text" /><br />
  Email: <input type="email" /><br />
</section>
<button value="submit">Submit</button>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### **QUESTION 128**

You are developing a customer contact form that will be displayed on a page of a company's website. The page collects information about the customer.

If a customer enters a value before submitting the form, it must be a valid email address.

You need to ensure that the data validation requirement is met.

What should you use?

- A. `<input name="email" type="input" required="required"/>`

- B. <input name=email" type="url" required="email"/>
- C. <input name="email" class" email"/>
- D. <input name="email" type="email"/>

**Answer:** D

**QUESTION 129**

You are developing an application to track project management for your company. The status of the project is stored in a variable named percentComplete.

The method must execute only when percentComplete is equal to the numeric value 100.

You need to develop the application to meet the requirement.

Which code segment should you use?

- A. if (percentComplete = 100 || percentComplete != 100) {  
    ...  
}
- B. if (percentComplete = 100 && percentComplete != 100) {  
    ...  
}
- C. if (percentComplete % 100) {  
    ...  
}
- D. if (percentComplete === 100) {  
    ...  
}
- E. if (percentComplete = 100) {  
    ...  
}

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**QUESTION 130**

Drag and Drop Question

You develop a website for a company by using HTML5.

You have the following requirements:

- Allow multiple news postings per page under the title "Welcome to the Semantic Web!".
- Search engines must be able to index individual news postings.
- News postings must be styled by using the following CSS markup:  
.posting { line-height: 150%; }

You need to structure the markup for each individual news posting.

How should you complete the relevant markup? (To answer, drag the appropriate markup to the

correct location or locations in the answer area. Use only markup that applies.)

**article****aside****body****div****div class="posting"****div id="posting"****head****header****Answer Area**

&lt; [ ] &gt;

&lt; [ ] &gt;

Welcome to the Semantic Web!

&lt;/ [ ] &gt;

&lt; [ ] &gt;

...

&lt;/ [ ] &gt;

&lt;/ [ ] &gt;

**Answer:****article****aside****body****div****div class="posting"****div id="posting"****head****header****Answer Area**

&lt; [ article ] &gt;

&lt; [ header ] &gt;

Welcome to the Semantic Web!

&lt;/ [ header ] &gt;

&lt; [ div class="posting" ] &gt;

...

&lt;/ [ div ] &gt;

&lt;/ [ article ] &gt;

**QUESTION 131**

You have a webpage that includes the following markup and code:

```
<!DOCTYPE html>
<html>
  <head>
    <script>
      function start() {
        var counter = 10;
        var fun = function () {
          counter = 20;
        }
        return counter;
      }
    </script>
  </head>
  <body>
    <button id="submit" onclick="alert(start());">Start</button>
  </body>
</html>
```

You need to troubleshoot the code by clicking the Submit button.

Which value will be displayed?

- A. 10
- B. 20
- C. Undefined
- D. Runtime error

**Answer:** A

### QUESTION 132

You develop an HTML5 webpage with custom CSS. You have the following HTML markup:

```
<div class="new" Item">...</div>
```

You have the following requirements:

- In addition to your CSS, you must use a corporate branded stylesheet named `corporate.ess`.
- The `corporate.ess` file contains the `style` rule that must be used for `.newsItem`.
- You must use the `corporate.ess` file to ensure that the webpage changes when the brand changes.
- You must add additional style rules to the webpage.
- You cannot modify the `corporate.ess` file.

You need to apply the appropriate CSS rules to meet the requirements.

What should you do?

- A. Add a CSS class named `.newsItemUpdates` to the webpage, add only the new styles to this class, and update the class attribute of the HTML markup:  
`<div class="newsItem newsItemUpdates">..</div>`
- B. Update the `corporate.ess` file to include `! important` for each rule for the `.newsItem` class, and add the new CSS rules to the webpage by using the CSS class `.newsItem`.
- C. Add a CSS class named `.newsitemUpdates` to the webpage, add the new styles to this class, and update the HTML markup to replace the `.newsItem` class with this new class:  
`<div class="newsitemUpdates">..</div>`
- D. Add the new CSS rules to the webpage by using the CSS class `.newsItem`, and add `! important` to each rule.

**Answer:** D

**QUESTION 133**

You are developing an e-commerce website. Users place products into a shopping cart. You need to ensure that the shopping cart data is available between browser sessions. Which object should you use to store the shopping cart data?

- A. clientStorage
- B. localStorage
- C. applicationStorage
- D. sessionStorage

**Answer:** B

**QUESTION 134**

You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission method.

You need to ensure that all future instances of the Customer object implement the GetCommission method.

Which code segment should you use?

- A. 

```
Customer.apply.GetCommission = function()
{
    alert('payroll');
}
```
  - B. 

```
Customer.GetCommission = function ()
{
    alert('payroll');
}
```
  - C. 

```
Customer.prototype.GetCommission = function Customer.GetCommission()
{
    alert('payroll');
}
```
  - D. 

```
Customer.prototype.GetCommission = function ()
{
    alert('payroll');
}
```
- A. Option A
  - B. Option B
  - C. Option C
  - D. Option D

**Answer:** D

**QUESTION 135**

You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

You need to change the background color for all of the elements whose name attribute ends with the word name.

Which code segment should you add to the webpage?

- A. `$( 'input [name!="name"]' ) .css ({ 'background-color' : '#E0ECF8'}) ;`
- B. `$( 'input [name~="name"]' ) .css ({ 'background-color' : '#E0ECF8' }) ;`
- C. `$( 'input[name*="name"]' ).css({background-color: #E0ECF8});`
- D. `$( 'input [name$="name"]' ) .css ({ 'background-color' : '#E0ECF8'}) ;`

**Answer:** D

#### **QUESTION 136**

You are developing a web application by using HTML5.

You have the following requirements.

- The color of a menu item must change when a user hovers over the item.
- The color of the menu item must change back to its original color after five seconds.

You need to ensure that the animation is applied to all menu items.

Which CSS3 code should you use?

C A. `menuitem:hover {  
 color: yellow  
 opacity: 100  
 transition-timing-function:ease-in;  
 . . .  
}`

C B. `menuitem:hover {  
 background-color: yellow;  
 transition-duration:5s;  
 . . .  
}`

C C. `menuitem:hover {  
 color: yellow  
 transition-property:color;  
 transition-duration:5s;  
 . . .  
}`

C D. `menuitem:hover {  
 color: yellow  
 transition-duration:5s;  
 . . .  
}`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

### QUESTION 137

Hotspot Question

You are implementing an HTML page that uses a custom sans-serif font. The CSS statement for the page is as follows.

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');  
}  
  
body {  
    font-family: 'special';  
}
```

Some users report that text is displayed in the default font for the browser.

You need to modify the CSS statement to ensure that the content is displayed with the custom font. What should you do? (To answer, select the appropriate options from the drop-down lists in the answer area.)

Work Area

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');
```

```
font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

```
}
```

```
body {
```

```
font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

**Answer:**

Work Area

```
@font-face {  
    font-family: 'special';  
    src: url(/Special.eot) format('embedded-opentype');
```

```
font-family: 'special', sans-serif;  
font-family: 'special', inherit;  
font-family: 'special'; font-synthesis: sans-serif;  
font-family: 'special'; font-variant: sans-serif;  
src: local('sans-serif') url(/Special.ttf) format('all');  
src: url(/Special.ttf) format('truetype');
```

```
}
```

```
body {
```

```
    font-family: 'special', sans-serif;  
    font-family: 'special', inherit;  
    font-family: 'special'; font-synthesis: sans-serif;  
    font-family: 'special'; font-variant: sans-serif;  
    src: local('sans-serif') url(/Special.ttf) format('all');  
    src: url(/Special.ttf) format('truetype');
```

**QUESTION 138**

You want to embed a Flash file called myFlash.swf in your HTML document. Which is the most appropriate code?

- A. <a href="myFlash.swf" ></a>
- B. <iframe src="myFlash.swf" ></iframe>
- C. 
- D. <embed src="myFlash.swf" ></embed>

**Answer:** D

**QUESTION 139**

You want to create a drawing of a machine that Contoso, Ltd., will be selling on its website. The drawing will be embedded in your HTML document, and you want it to maintain its quality when resized. Which is the most appropriate file type to use?

- A. SVG
- B. GIF
- C. JPG
- D. PNG

**Answer:** A

**QUESTION 140**

Your application prompts the user to enter his or her age, which is placed in an age variable. A user ran the application and entered I Don't Know for the age. The application then multiplies age by two. What is the result?

- A. undefined
- B. null
- C. NaN
- D. infinity

**Answer:** C

#### QUESTION 141

Which of the following represent valid variable declarations? (Choose all that apply.)

- A. var switch;
- B. var myChar;
- C. var \$cost;
- D. var \_total;
- E. var 1to1;
- F. var tooGood4u;

**Answer:** BCDF

#### QUESTION 142

You are developing an HTML5 web application. The application loads data from a web service by using AJAX. The application displays the data by calling the displayData function. The data is loaded by using the following code.

```
var ajax = $.ajax({  
    url: dataUri,  
});
```

You need to ensure that the data is displayed when it is successfully retrieved from the web service. Which code segment should you use?

- A. displayData.ajax.data;
  - B. ajax.done = function (data) {  
 displayData(dataOperation);  
 };
  - C. ajax.always = function (data) {  
 displayData(dataOperation);  
 };
  - D. displayData.ajax.val();
- A. Option A
  - B. Option B
  - C. Option C
  - D. Option D

**Answer:** B

#### **QUESTION 143**

You are developing a web page that performs CPU-intensive calculations. A web worker processes these calculations on a separate background thread. The process is instantiated from the web page. You need to stop the web worker process after the calculations are completed. Which two actions can you perform to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. From the web page, call the close() method.
- B. From the web worker process, call the terminate() method.
- C. From the web page, call the terminate() method.
- D. From the web worker process, call the close() method.

**Answer:** CD

#### **QUESTION 144**

You are developing an HTML5 page named main.html. The JavaScript code for the main page is located in a file named myApp.js.

You need to create a web worker and instantiate it from main.html.

Where should you place the web worker code?

- A. In the myApp.js file
- B. In the main.html file
- C. In a separate .js (JavaScript) file
- D. In a separate executable file

**Answer:** C

#### **QUESTION 145**

You are developing a JavaScript library.

You have the following requirements:

- Custom exceptions must include an error message and custom error number.
- These exceptions must be thrown when data validation errors occur.
- Developers must call the library to easily catch the exception and identify the problem.

You develop the following code. (Line numbers are included for reference only.)

```
01 function ValidationException(number, message) {
02     this.message = message;
03     this.name = "myLibrary Exception";
04     this.number = number;
05 }
06
07 function myFunction(dayOfWeek) {
08     if (dayOfWeek > 7) {
09
10     }
11 }
```

You need to complete the code to meet the requirements.

Which line of code should you insert at line 09?

- A. throw new ValidationException (123, "Day of week must be less than 7");

- B. return new ValidationException(123, "Day of week must be less than 7");
- C. throw ValidationException(123, "Day of week must be less than 7");
- D. catch ValidationException(123, "Day of week: must be less than 7");

**Answer:** A

**QUESTION 146**

You are developing an application that retrieves a stock rate from an external web service. A web page displays a simple rotating animation to indicate whether the stock rate is increased or decreased.

The default image, as shown in the following graphic, indicates unchanged or neutral.



The arrow must point down if the stock rate is decreased, as shown in the following graphic.



You need to ensure that the arrow points down when the stock rate decreases.

Which CSS style should you apply?

- C A. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(90deg);
  }
</style>
```
- C B. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(-90deg);
  }
</style>
```
- C C. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(-90deg);
  }
</style>
```
- C D. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(90deg);
  }
</style>
```

**Answer:**

- C A. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(90deg);
  }
</style>
```
- C B. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(-90deg);
  }
</style>
```
- C C. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(-90deg);
  }
</style>
```
- C D. 

```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(90deg);
  }
</style>
```

#### QUESTION 147

You are troubleshooting a web page that includes the following code segment.

```
var x = 0;
function fun() {
  var x = 1;
  if (x) {
    x = 2;
  }
}
fun();
alert(x);
```

You need to evaluate the value of the variable x.  
What will be displayed in the user interface?

- A. 0
- B. 1
- C. 2
- D. An error

**Answer:** A

**QUESTION 148**

You develop an HTML5 chat application.

You need to provide real-time updates to the messages that users post in the chat application.  
What should you do?

- A. Use get o to obtain data updates.
- B. Use a RESTful web service.
- C. Use WebSockets.
- D. Use ajaxo to obtain data updates.

**Answer:** C

**QUESTION 149**

You are creating a rotating image of a company logo.

The logo must spin on a horizontal axis and on a vertical axis.

You need to use the least amount of development effort to meet the requirement.  
What should you do?

- A. Create an Image Spinner object, load the image into the spinner, and set the horizontal and vertical rotation properties.
- B. Create a Canvas Globe transform and set the image as the globe object. Set the horizontal and vertical rotation properties.
- C. Create a single Canvas 3D transform and load the image into it. Set the rotation properties.
- D. Create a Canvas 2D transform and set the image to rotate horizontally and vertically.

**Answer:** C

**QUESTION 150**

You are developing an HTML5 web application that provides a discussion forum for users. When a user registers to access the application, the user enters an email address.

Users can enter data that can result in cross-site scripting (XSS) attacks.

You need to ensure that email input is as secure as possible.

Which two techniques should you use? (Each correct answer presents a complete solution.  
Choose two.)

- A. Remove all nonalphanumeric characters before submitting data.
- B. Use the email tag in forms where the email address is entered.
- C. Display all email addresses inside of an HTML5 ADDRESS element.
- D. Use jQuery validation with a regular expression to ensure that email addresses are valid.
- E. Ensure that all form data is encrypted when it is submitted.

**Answer:** BD

**QUESTION 151**

Drag and Drop Question

You are validating user input by using JavaScript and regular expressions.

A group of predefined regular expressions will validate two input fields:

- An email address in a function named validateEmail (for example, firstname@contoso.com)
- A nine-digit number that allows optional hyphens after the second and fifth character in a function named validateSSN (for example, 555555555 or 555-555-5555)

You need to use the correct expression to validate the input.

Which expression should you insert into each function? (To answer, drag the appropriate regular expression statement to the correct location. Each regular expression statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

/^\d{1,2}(\-|\//|\.)\d{1,2}\1\d{4}\$/;

/^([0-9]{3})^?([0-9]{2})^?([0-9]{4})\$/;

/^([0-9]{0})^\*[0-9]{2})^\*[0-9]{4}\$/;

/^([a-zA-Z0-9.\_-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4})\$/;

/^([0-9]{3})+@[a-zA-Z0-9.-]+\.[0-9]{2,4})\$/;

#### Answer Area

```
function validateSSN(userinput) {  
    var ssnPattern =  
        ;  
  
    return ssnPattern.test(userinput);  
}
```

```
function validateEmail(userinput){  
    var emailPattern =  
          
  
    return emailPattern.test(userinput);  
}
```

**Answer:**

```
/^\d{1,2}(\-|\|)\d{1,2}\1\d{4}$/;
```

```
/^ [0-9]{3}\^? [0-9]{2}\^? [0-9]{4}$/;
```

```
/^ [0-9]{0}\^* [0-9]{2}\^* [0-9]{4}$/;
```

```
/^ [a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^ [0-9]{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

**Answer Area**

```
function validateSSN(userinput) {  
    var ssnPattern =  
        /^ [0-9]{3}\^? [0-9]{2}\^? [0-9]{4}$/;
```

```
    return ssnPattern.test(userinput);  
}  
  


```
function validateEmail(userinput){  
    var emailPattern =  
        /^ [a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```


```
    return emailPattern.test(userinput);  
}
```


```

**QUESTION 152**

You are developing a customer web form that includes the following HTML.

```
<input id="txtValue" type="text" />
```

A customer must enter a valid age in the text box prior to submitting the form.

You need to add validation to the control.

Which code segment should you use?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**QUESTION 153**

You are developing a customer contact form that will be displayed on a page of a company's website. The page collects information about the customer.

If a customer enters a value before submitting the form, it must be a valid email address.

You need to ensure that the data validation requirement is met.

What should you use?

- A. <input name="email" type="url"/>
- B. <input name="email" type="text" required="required"/>
- C. <input name="email" type="text"/>
- D. <input name="email" type="email"/>

**Answer:** D

**Explanation:**

[http://www.w3schools.com/html/html5\\_form\\_input\\_types.asp](http://www.w3schools.com/html/html5_form_input_types.asp)

**QUESTION 154**

Drag and Drop Question

You are developing a form that captures a user's email address by using HTML5 and jQuery.

- The form must capture the email address and return it as a query string parameter.
- The query string parameter must display the @ symbol that is used in the email address.

You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
<!DOCTYPE html>
<html>
<head>
<script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
<form>
<input type="text" name="email" />
<input type="submit" value="Submit" />
</form>
<script>
$( "form" ).submit(function () {
    var str;
    str = encodeURIComponent(str);
    str = decodeURIComponent(str);
    str = str.replace(/\s+/g, "%20");
    str = str.replace(/\n/g, "%0D%0A");
    str = str.replace(/\r/g, "%0D");
    str = str.replace(/\&/g, "%26");
    str = str.replace(/\!/g, "%21");
    str = str.replace(/\$/g, "%24");
    str = str.replace(/\#>/g, "%23%26gt;");
    str = str.replace(/\#</g, "%23%26lt;");
    str = str.replace(/\#&gt;/g, "%23%26amp%26gt;");
    str = str.replace(/\#&lt;/g, "%23%26amp%26lt;");
    str = str.replace(/\#&gt;&lt;/g, "%23%26amp%26gt;%26amp%26lt;");
    str = str.replace(/\#&gt;&lt;&gt;/g, "%23%26amp%26gt;%26amp%26lt;%26amp%26gt;");
    str = str.replace(/\#&lt;&gt;/g, "%23%26amp%26lt;%26amp%26gt;");
    str = str.replace(/\#&gt;&lt;&gt;&lt;/g, "%23%26amp%26gt;%26amp%26lt;%26amp%26gt;%26amp%26lt;");
    str = str.replace(/\#&lt;&gt;&lt;&gt;/g, "%23%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;");
    str = str.replace(/\#&gt;&lt;&gt;&lt;&gt;/g, "%23%26amp%26gt;%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;");
    str = str.replace(/\#&lt;&gt;&lt;&gt;&lt;&gt;/g, "%23%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;");
    str = str.replace(/\#&gt;&lt;&gt;&lt;&gt;&lt;&gt;/g, "%23%26amp%26gt;%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;%26amp%26lt;%26amp%26gt;");
```

**Answer:**

```
str = $("form").serialize();
str = decodeURIComponent(str);
str = $("form").contents.toString();
str = $("form").toLocaleString();
str = decodeURI(str);

<!DOCTYPE html>
<html>
<head>
<script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
<form>
<input type="text" name="email" />
<input type="submit" value="Submit" />
</form>
<script>
  $("form").submit(function () {
    var str;
    str = $("form").serialize();
    str = decodeURIComponent(str);
    return true;
  });
</script>
</body>
</html>
```

**QUESTION 155**

You are developing an application that consumes a Windows Communication Foundation (WCF) service.

The application interacts with the service by using the following code. (Line numbers are included for reference only.)

```
01 <script>
02   function getCountry(country) {
03     $.ajax({
04       type: "POST",
05       contentType: "application/json; charset=utf-8",
06       url: "http://contoso.com/Service.svc/GetCountry",
07       data: '{"Country":' + country + '}',
08       dataType: "json",
09       success: OnSuccess,
10       error: OnError
11
12     });
13   }
14   function OnSuccess(data, status) {
15   ...
16   }
17   function OnError(request, status, error) {
18   ...
19   }
20 </script>
```

You need to authenticate to the WCF service.

What should you do?

- A. At line 11, add the following lines of code.  
,username: yourusername

- ,password: yourpassword  
B. At line 11, add the following line of code.  
,credentials: prompt  
C. At line 06, replace the code with the following line of code.  
url: "http://contoso.com/Service.svc/GetCountry? Username=username&password=pssword",  
D. At line 11, add the following line of code. The username and password will be stored in an XML file.  
,credentials: credentials.xml

**Answer:** A**Explanation:**[http://msdn.microsoft.com/en-us/library/ie/hh673558\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx)**QUESTION 156**

You are developing a web page that enables customers to upload documents to a web server. The page includes an HTML5 PROGRESS element named progressBar that displays information about the status of the upload.

The page includes the following code. (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 var progressBar = $("#progressBar");
03
04 function(e) {
05   if (e.lengthComputable) {
06     progressBar.value = (e.loaded / e.total) * 100;
07     progressBar.textContent = progressBar.value;
08   }};

```

An event handler must be attached to the request object to update the PROGRESS element on the page.

You need to ensure that the status of the upload is displayed in the progress bar.

Which line of code should you insert at line 03?

- A. xhr.upload.onloadeddata =
B. xhr.upload.onplaying =
C. xhr.upload.onseeking =
D. xhr.upload.onprogress =

**Answer:** D**Explanation:**<http://stackoverflow.com/questions/3352555/xhr-upload-progress-is-100-from-the-start>**QUESTION 157**

You are developing a customer web form that includes the following HTML.

```
<label id="txtValue"X/label>
```

Information from the web form is submitted to a web service. The web service returns the following JSON object.

```
{
"Confirmation": "1234",
"FirstName": "John"
}
```

You need to display the Confirmation number from the JSON response in the txtValue label field. Which JavaScript code segment should you use?



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- A. `$("#txtValue").val = (JSONObject.Confirmation);`
- B. `$("#txtValue").val (JSONObject.Confirmation);`
- C. `$("#txtValue").text = (JSONObject.Confirmation);`
- D. `$("#txtValue").text (JSONObject.Confirmation);`

**Answer:** D

### **QUESTION 158**

Hotspot Question

You are developing a web application that retrieves data from a web service. The data being retrieved is a custom binary datatype named bint. The data can also be represented in XML.

Two existing methods named parseXml() and parseBint() are defined on the page.

The application must:

- Retrieve and parse data from the web service using binary format if possible
- Retrieve and parse the data from the web service using XML when binary format is not possible

You need to develop the application to meet the requirements.

What should you do? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
var request = $.ajax({
  uri: '/',

  if (request.getResponseHeader("Content-Type") == "application/bint")
    if (request.getResponseHeader("Content-Type") == "application/bint")
      if (type == "application/bint")
        if (request.mimeType == "application/bint")
          accepts: 'application/bint, text/xml',
          contentType: 'application/bint, text/xml',
          dataType: 'application/bint, text/xml',

dataFilter: function (data, type) {

  if (request.getResponseHeader("Content-Type") == "application/bint")
    if (request.getResponseHeader("Content-Type") == "application/bint")
      if (type == "application/bint")
        if (request.mimeType == "application/bint")
          accepts: 'application/bint, text/xml',
          contentType: 'application/bint, text/xml',
          dataType: 'application/bint, text/xml',

          return parseBint(data);
        else
          return parseXml(data);
      },
      success: function (data) {
        start(data);
      }
});
```

**Answer:**

```
var request = $.ajax({
    uri: '/',

    if (request.getResponseHeader("Content-Type") == "application/bint")
    if (request.getResponseHeader("Content-Type") == "application/bint")
    if (type == "application/bint")
    if (request.mimeType == "application/bint")
    accepts: 'application/bint, text/xml',
    contentType: 'application/bint, text/xml',
    dataType: 'application/bint, text/xml',
```

```
dataFilter: function (data, type) {

    if (request.getResponseHeader("Content-Type") == "application/bint")
    if (request.getResponseHeader("Content-Type") == "application/bint")
    if (type == "application/bint")
    if (request.mimeType == "application/bint")
    accepts: 'application/bint, text/xml',
    contentType: 'application/bint, text/xml',
    dataType: 'application/bint, text/xml',
```

```
        return parseBint(data);
    else
        return parseXml(data);
},
success: function (data) {
    start(data);
}
});
```

**QUESTION 159**

You are developing a customer web form that includes the following HTML.

```
<input id = "txtValue" />
```

A customer must enter a value in the text box prior to submitting the form.

You need to add validation to the text box control.

Which HTML should you use?

- A. <input id="txtValue" type="text" required="required"/>
- B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />
- C. <input id="txtValue" type="required" />
- D. <input id="txtValue" type="required" autocomplete="on" />

**Answer:** A

**QUESTION 160**

## Drag and Drop Question

You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age.

You have the following requirements:

- All runners must enter their age.
- Applications must not be accepted from runners less than 18 years of age or greater than 90 years.
- The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

You need to ensure that the slider control meets the requirements.

What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

range

slider

0

18

90

100

37

avgAge()

default

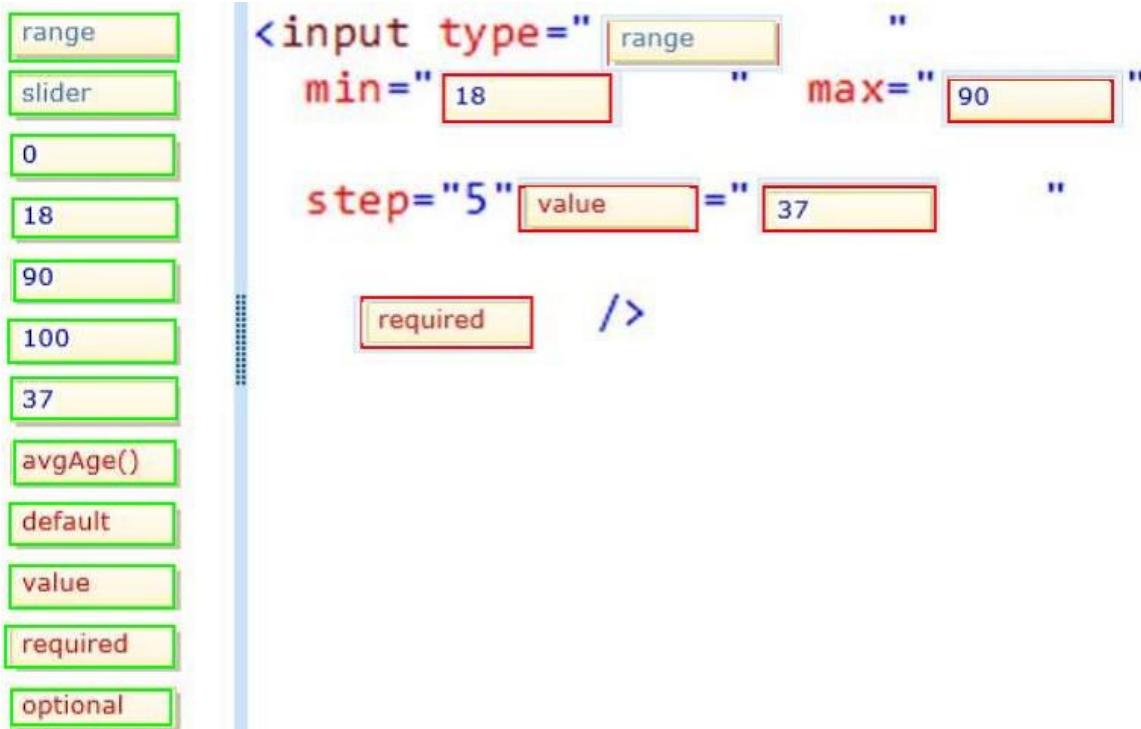
value

required

optional

```
<input type="range" min="18" max="90" step="5" value="37" />
```

**Answer:**

**QUESTION 161**

You are developing an HTML5 web application that displays the current temperature whenever a button is clicked. The following code provides this functionality.

```
function Loader() {
    this.status = "ready";
    this.temp = 50;
    this.updateStatus = function (newStatus) {
        status = newStatus;
    };
}

var loader = new Loader();

$(function () {
    $("#loadTemp").click(function (eventData) {
        loader.temp = loadTemp();
        loader.updateStatus("done");
    });
});
```

When the temperature is loaded, the status property on the loader instance does not change. You need to ensure that the status property on the loader instance is updated when the temperature is loaded.

Which code segment should you use to replace the Loader function?

- C A. 

```
function Loader() {
    this.status = "ready";
    this.temp = 50;
    this.updateStatus = function (newStatus) {
        this.status = newStatus;
    };
}
```
- C B. 

```
function Loader() {
    this.prototype.status = "ready";
    this.temp = 50;
    this.updateStatus = function (newStatus) {
        this.status = newStatus;
    };
}
```
- C C. 

```
function Loader() {
    status = "ready";
    this.temp = 50;
    this.updateStatus = function (newStatus) {
        status = newStatus;
    };
}
```
- C D. 

```
function Loader() {
    window.status = "ready";
    this.temp = 50;
    this.updateStatus = function (newStatus) {
        status = newStatus;
    };
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

#### QUESTION 162

You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited PayEmployee method. The Employee class is defined as follows.

```
function Employee() {}
```

```
Employee.prototype.PayEmployee = function () {
    alert('Hi there!');
}
```

Future instances of Consultant must be created with the overridden method.

You need to write the code to implement the Consultant class.

Which code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. Consultant.PayEmployee = function () {  
 {  
 alert('Pay Consultant');  
 }  
}
- B. Consultant.prototype.PayEmployee = function () {  
 alert('Pay Consultant');  
}
- C. function Consultant () {  
 Employee.call(this);  
}  
Consultant.prototype = new Employee();  
Consultant.prototype.constructor = Consultant;
- D. function Consultant() {  
 Employee.call(this); }  
Consultant.prototype.constructor = Consultant.create;

**Answer:** BC

#### **QUESTION 163**

You are developing a web application that consumes services from a third-party application. A web worker processes the third-party application requests in the background. A page in the application instantiates the web worker process.

You need to establish two-way communications between the web worker process and the page. Which two actions will achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. From the web worker, use the onconnect event handler of the main page to capture events.
- B. From the main page, use the onmessage event handler of the web worker to capture events.
- C. From the web worker, use the onmessage event handler of the main page to capture events.
- D. From the main page, use the onconnect event handler of the web worker to capture events.

**Answer:** BC

#### **QUESTION 164**

You are developing an HTML5 web application that displays customer mailing address information. The application loads addresses from a web service by using AJAX. The following code defines a Customer object and loads address data.

```
function Customer(firstName, lastName) {
    this.firstName = firstName;
    this.lastName = lastName;
    this.address = "";
}

Customer.prototype.parseAddress = function (data) {
    this.address = data.address;
}

Customer.prototype.loadAddress = function () {

}
```

You need to implement the loadAddress function.

Which code segment should you use?

- A. `$.get('data.xml', function (data) {
 (function (scope) {
 scope.parseAddress(data);
 })(data);
 });
}`
- B. `$.get('data.xml', function (data, innerScope) {
 innerScope.parseAddress(data);
});
}`
- C. `var that = this;
$.get('data.xml', function (data) {
 that.parseAddress(data);
});
}`
- D. `$.get('data.xml', function (data) {
 this.parseAddress(data);
});
}`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### QUESTION 165

You are developing an HTML5 web page.

The appearance of the text box must change when a user moves the focus to another element on the page.

You need to develop the page to respond to user action.

Which line of code should you use?

- A. <input type="text" onblur="resetStyle(this);"/>
- B. <input type="text" onfocus="resetStyle(this);"/>
- C. <input type="text" onreset="resetStyle(this);"/>
- D. <input type="text" onselect="resetStyle(this);"/>

**Answer:** A

**Explanation:**

[http://www.w3schools.com/jsref/event\\_onblur.asp](http://www.w3schools.com/jsref/event_onblur.asp)

### QUESTION 166

Drag and Drop Question

You are developing an online shopping application that accepts credit cards for payment.

If the credit card number is invalid, the application must:

- Generate an error
- Assign "200" to the error number
- Assign "Invalid" to the error description

You need to write the code that meets the requirements.

How should you write the code? (To answer, drag the appropriate code segment or segments to the correct location in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

throw                          new                          (                          ,                          ) ;

    "Invalid"

    200

    Error

    break

**Answer:**

throw                          new                          (                          ,                          ) ;

    "Invalid"

    200

    Error

    break

**QUESTION 167**

You are developing an HTML5 page that includes several paragraph elements.

You have the following requirements:

- Add a drop shadow that is one inch below the text in the paragraph
- Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements.

Which CSS style should you use?

- A. text-shadow: 72pt 0pt 5pt
- B. text-shadow: 5px 1in 0px;
- C. text-shadow: 72pt 5em 0px
- D. text-shadow: 72pt 0em 5px;

**Answer:** B

**QUESTION 168**

You are creating a web form that users will use to enter their personal information. The form includes the following HTML.

```
<body>
  <table>
    <tr>
      <td>Item</td>
      <td>Input</td>
      <td>Current</td>
    </tr>
    <tr>
      <td>First Name</td>
      <td>
        <input type="text" />
      </td>
      <td></td>
    </tr>
    <tr>
      <td>Last Name</td>
      <td>
        <input type="text" />
      </td>
      <td></td>
    </tr>
  </table>
</body>
```

You have the following requirements:

- When a user enters an input box, the cell on the right must turn green.
- When a user leaves an input box, the cell on the right must turn white.

You need to create the web form to meet these requirements.

Which code segment should you use?

- A. 

```
$(document).ready(function () {
    $('table td: nth-child(2) input').focus(
        function () {
            $(this).parent().next().css
                ("background-color", "#00FF00");
        });
    $('table td: nth-child(2) input').blur(
        function () {
            $(this).parent().next().css
                ("background-color", "#FFFFFF");
        });
});
```
- B. 

```
$(document).ready(function () {
    $('table td: eq(2) input').focus(
        function () {
            $(this).parent().parent().next().css
                ("background-color", "#00FF00");
        });
    $('table td: eq(2) input').blur(
        function () {
            $(this).parent().parent().next().css
                ("background-color", "#FFFFFF");
        });
});
```
- C. 

```
$(document).ready(function () {
    $('table td:eq(2) input').focus(
        function () {
            $(this).parent().next().css
                ("background-color", "#00FF00");
        });
    $('table td: eq(2) input').blur(
        function () {
            $(this).parent().next().css
                ("background-color", "#FFFFFF");
        });
});
```
- D. 

```
$(document).ready(function () {
    $('table td:nth-child(2) input').focus(
        function () {
            $(this).parent().parent().next().css
                ("background-color", "#00FF00");
        });
    $('table td:nth-child(2) input').blur(
        function () {
            $(this).parent().parent().next().css
                ("background-color", "#FFFFFF");
        });
});
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

**QUESTION 169**

You are developing a web page. You create a grid layout by using the following CSS segment.

```
#myGrid {  
    display: -ms-grid;  
    background: gray;  
    -ms-grid-columns: 100px 100px;  
    -ms-grid-rows: 50px 50px 50px;  
}
```

You have the following requirements:

- You must place content in the first column of the second row.
- The content must span two columns.

You need to ensure that the style of the grid meets the requirements.

Which CSS segment should you use?

- A. 

```
#itemSpan {  
    -ms-grid-row: 2;  
    -ms-grid-column: 1;  
    -ms-grid-column-span: 2  
}
```
  - B. 

```
#itemSpan {  
    -ms-grid-row: 2;  
    -ms-grid-column: 1;  
    -ms-grid-column-span: initial  
}
```
  - C. 

```
#itemSpan {  
    -ms-grid-row: 2;  
    -ms-grid-column: 1;  
    -ms-grid-column-width: 2;  
}
```
  - D. 

```
#itemSpan {  
    -ms-grid-row: 2;  
    -ms-grid-column: 1;  
    -ms-grid-column-span: inherit  
}
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

**QUESTION 170**

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